

EO 45-1-4

**ROYAL CANADIAN AIR FORCE**



**US, BRITISH & NATO EQUIVALENTS  
OF RCAF  
PETROLEUM & SPECIALTY PRODUCTS**

(This EO replaces EO 45-1-4 dated 5 Mar 63)

ISSUED ON AUTHORITY OF THE CHIEF OF THE DEFENCE STAFF

5 NOV 64

# LIST OF RCAF REVISIONS

**DATE**

**PAGE NO**

**DATE**

**PAGE NO**



## TABLE OF CONTENTS

TITLE	PAGE
GENERAL	1
CONTAINER MARKINGS	1
SPECIFICATIONS	1
DEFINITIONS OF TERMS - STANDARDIZED	3
ACCEPTABLE	3
EMERGENCY SUBSTITUTES	3
SPECIFICATIONS SUPERSEDED OR REPLACED	3
CANADIAN SPECIFICATIONS	5
BRITISH SPECIFICATIONS	7
UNITED STATES SPECIFICATIONS	9
ITEM CHANGES - DELETIONS	11
ITEM CHANGES - ADDITIONS	13

## LIST OF TABLES

TABLE	TITLE	PAGE
1	Anti-Seize and Sealing Compounds	17
2	Anti-Solvents	21
3	Compass Fluids	23
4	Coolants	25
5	De-Icing Fluids	27
6	Fuels	29
7	Greases	33
8	Hydraulic Fluids	37
9	Lubricating Oils	39
10	Gear Lubricants	47
11	Preservatives	49
12	Thrust Augmentation Fluids	53
13	Solvents	55
14	Calibrating Fluid	57



# US, BRITISH & NATO EQUIVALENTS OF RCAF PETROLEUM & SPECIALTY PRODUCTS

## GENERAL

1 Tables 1 to 14 of this EO list the description, application specification or trade name, of petroleum and associated products used by the RCAF. In addition, equivalent specifications and NATO symbols are listed for purposes of standardization, together with the status and degree of interchangeability existing. Where the specification of a particular NATO nation is not mentioned, it implies the nation either has no equivalent product, or uses the specification of another NATO nation.

### NOTE

It is important to note that the status or degree of interchangeability indicated in Tables 1 to 13 applies only to the RCAF, and is to be used in one direction only; quoting one material as a substitute for another does not imply the converse. For example: the RCAF may accept a British engine oil as a substitute for Canadian hydraulic fluid, but the converse, use of Canadian Hydraulic Fluid in British engines is not permitted. Again, where the RCAF may allow the addition of non-heavy duty ME oil to a crankcase containing heavy duty ME oil, the converse addition of heavy duty oil to an engine normally run on plain oil is not permitted.

2 The existence of a blank space in the tables does not necessarily mean that no substitute exists, but that such substitutes or their status have not yet been established.

## CONTAINER MARKINGS

3 All containers of petroleum and associated products will be marked with a NATO symbol where such a symbol has been established. This NATO symbol will be the one common marking that the user in the field need look for when identifying and using petroleum products, irrespective of the country of origin of the product.

## SPECIFICATIONS

4 Specifications are quality control media developed by various governments or manufacturers to ensure the consistent quality of any required product. A specification may be developed for a product having one use only, as for special turbine oils, or for products of wider application, such as general purpose greases.

5 The prime Canadian agency for the promulgation of specifications is the Canadian Government Specifications Board, National Research Council, Ottawa. This body develops specifications for products required by the Navy, Army, Air Force, or any other branch of the Canadian Government. At present, there are sixty classes of materials listed in the CGSB series of specifications; the first number of a CGSB specification signifies the general class or type of material specified, for example:

1-GP	Paints, pigments and related commodities
3-GP	Petroleum and associated products
20-GP	Rubber products
31-GP	Corrosion preventive

6 Governments of the United Kingdom and the United States have agencies corresponding in function to the Canadian Government Specifications Board. The Order of preference of these specifications in the RCAF is:

- (a) Canadian specifications
- (b) US specifications
- (c) UK specifications

NOTE

The common source of all specifications is AMCHQ.

7 In cases where a paradox exists in Engineering Orders, the EO with the later issue date shall be considered to be the correct one. Aircraft EOs cross-refer to EOs 45-1-2 and 45-1-4. Only these two EOs will list all supersedures and amendments to specifications, description and application of petroleum and specialty products.

8 When an RCAF approved specification is quoted, the latest edition of that specification is implied. For example, US Military Specification MIL-C-5544 is superseded by MIL-T-5544A. Hence, should MIL-C-5544 be quoted, MIL-T-5544A is implied; should the requirements of this specification be extensively changed in future, it would be re-issued as MIL-T-5544B. Hence a letter suffix to any specification designation indicates that the original specification is amended or revised either to change or re-define a requirement. Amendments to US Military specifications are signified by capital letter suffixes MIL-T-5542B, whereas amendments to CGSB and US Federal Specifications are signified by lower case letter suffixes, 3-GP-25c, VV-L-75 la. Amendments to CGSB specifications are signified by capital letters on the title page and by lower case letters on the text pages. Suffixes are allotted in consecutive alphabetic sequence.

9 Notes on specification numbers and abbreviations are as listed:-

GP	Canadian Government Specifications Board Specification
MIL *	US Military Specification
DTD	UK Specification - Directorate of Technical Development
D Eng RD	UK Specification - Directorate of Engine Research and Development
DED	UK Specification - Directorate of Engine Development (now replaced by D ENG RD)
JAN	Joint US Army - Navy Specification
CS	UK Ministry of Supply (War Office) Specification
DEF	UK Ministry of Defence Specification for use by Government Departments
AF	USAF Specification
VV	US Federal Specification

AN	US Air Force - Navy Aeronautical Specification
JJJ	US Federal Specification
Q	US Army Specification
OEP	Oil Extreme Pressure (UK)
OMD	Oil Mineral Detergent (UK)
AXS	US Army Ordnance Department
PX	Protective, Miscellaneous (UK)
BS	British Standards Institute

\* US Military Specifications are now replacing all except Federal Specifications so that eventually there will only be two series, viz; Military, used by US Armed Forces only, and Federal, used by Civilian Departments as well as by US Armed Forces.

## DEFINITION OF TERMS

### STANDARDIZED

10 Where the RCAF approved, US, UK or other NATO specification products are deemed STANDARDIZED, they are allotted a common NATO symbol. It is considered that these specifications meet the same technical requirements.

### ACCEPTABLE

11 Where the RCAF approved, US, UK or other NATO Specification materials are designated ACCEPTABLE, products conforming to any of these specifications may be used for extended periods without technical advice.

### EMERGENCY SUBSTITUTES

12 Two or more products which differ in composition and test methods, but which are sufficiently similar to permit limited use, are considered to be EMERGENCY SUBSTITUTES. An emergency substitute may be used in lieu only when an immediate urgent requirement exists, but only on the advice of technically qualified personnel of the nation using the product who will specify the limitations of the substitute product.

### NOTE

All traces of the previously used fluid or lubricant (with the exception of fuels and de-icing fluids) must be removed before application of the emergency substitute product.

### SPECIFICATIONS SUPERSEDED OR REPLACED

13 The following paragraphs list specifications that have been superseded or replaced since the Feb 53 issue of EO 45-1-4, together with the approved specification to be used for normal application and procurement.



# CANADIAN SPECIFICATIONS

14 Canadian Specifications are as listed:

SPEC. NO.	REPLACED OR SUPERSEDED BY	CURRENT RCAF APPROVED SPECIFICATIONS
3-GP-1b	3-GP-1c	3-GP-1c Am 2
3-GP-3	3-GP-3	3-GP-3 Type 1 Am 1
3-GP-6	3-GP-6a	3-GP-6c Am 1
3-GP-8	3-GP-8a	3-GP-8a Am 2
3-GP-22c	3-GP-22d Am 1	3-GP-22e Am 3
3-GP-23c	3-GP-23d	3-GP-23e Am 3
3-GP-24b	3-GP-24c	3-GP-24d Am 3
3-GP-5	3-GP-25c	3-GP-25d Am 3
3-GP-17	3-GP-25	3-GP-25d Am 3
3-GP-26a	3-GP-26b	3-GP-26b Am 3
3-GP-27	3-GP-27a	3-GP-27b Am 1
3-GP-31	3-GP-31	3-GP-31 Am 1
3-GP-38	3-GP-38	3-GP-38a Am 1
3-GP-37R	3-GP-44RP	3-GP-44b Am 1
3-GP-45	3-GP-45	3-GP-45a Am 1
3-GP-91	3-GP-91	3-GP-91
3-GP-100a	3-GP-100b	3-GP-100b Am 1
3-GP-315	3-GP-315	3-GP-315 Am 1
3-GP-320	3-GP-320	3-GP-320 Am 2
3-GP-325	3-GP-325	3-GP-325 Am 1
3-GP-335	3-GP-335a	3-GP-335b Am 1
3-GP-336	3-GP-336	3-GP-336 Am 1
3-GP-340	3-GP-340a	3-GP-340a Am 2
3-GP-343	3-GP-343	3-GP-343 Am 2
3-GP-345a	3-GP-345a	3-GP-345a Am 3
3-GP-346	3-GP-346	3-GP-346a Am 1
3-GP-347	3-GP-347a	3-GP-347a Am 2
3-GP-351	3-GP-351a	3-GP-351a Am 2
3-GP-357T	3-GP-357Ta	3-GP-357b Am 2
3-GP-360	3-GP-360a	3-GP-360b Am 2
3-GP-365	3-GP-365	3-GP-365a Am 1
3-GP-366	3-GP-366	3-GP-366a Am 1
3-GP-367	3-GP-367	3-GP-367a Am 1
3-GP-375	3-GP-375	3-GP-375b Am 1
3-GP-141	3-GP-390b	3-GP-390b Am 2
3-GP-395	3-GP-395	3-GP-395a Am 1
3-GP-396	3-GP-396	3-GP-396b Am 2
3-GP-440	3-GP-440	3-GP-440 Am 2
3-GP-510a	3-GP-510b	3-GP-510c Am 2
3-GP-525	3-GP-525a	3-GP-525b Am 1
3-GP-530	3-GP-530	3-GP-530 Am 1
3-GP-601	3-GP-601	3-GP-601 Am 2
3-GP-605	3-GP-605	3-GP-605a
3-GP-606	3-GP-606	3-GP-606a Am 1
3-GP-662	3-GP-662	3-GP-662a Am 1
3-GP-665	3-GP-665	3-GP-665a Am 1
3-GP-682a	3-GP-682a Am 1	3-GP-682b
3-GP-604	3-GP-685a	3-GP-685b
3-GP-670	3-GP-685a	3-GP-685b

## CANADIAN SPECIFICATIONS (Cont'd)

SPEC. NO.	REPLACED OR SUPERSEDED BY	CURRENT RCAF APPROVED SPECIFICATION
3-GP-671	3-GP-685a	3-GP-685b
3-GP-672	3-GP-685a	3-GP-685b
3-GP-686 Am 1	3-GP-686a	3-GP-686b Am 1
3-GP-687	3-GP-687	3-GP-687a Am 1
3-GP-688	3-GP-688	3-GP-688 Am 2
3-GP-689	3-GP-689	3-GP-689a
3-GP-690a	3-GP-690a Am 1	3-GP-690b
3-GP-801	3-GP-801	3-GP-801 Am 1
3-GP-802	3-GP-802	3-GP-802a Am 1
3-GP-805	3-GP-805	3-GP-805 Am 2
3-GP-806	3-GP-806	30GP-806 Am 1
3-GP-850	3-GP-850	3-GP-850a Am 1
3-GP-854P	3-GP-854	3-GP-854 Am 3
3-GP-900	3-GP-900	3-GP-900 Am 4
3-GP-901	3-GP-901	3-GP-901 Am 4
3-GP-903	3-GP-903	3-GP-903a Am 2
3-GP-904	3-GP-904	3-GP-904a
3-GP-905	3-GP-905	3-GP-905 Am 1
3-GP-701	31-GP-3	3-GP-856
3-GP-702	31-GP-4	31-GP-3
3-GP-703	31-GP-5	31-GP-4
31-GP-9	31-GP-9	31-GP-5
43-GP-6	43-GP-6	31-GP-9
3-GP-34	3-GP-34	43-GP-6a Type 2
		CSA C5056



## BRITISH SPECIFICATIONS

15 British Specifications are as listed:

SPEC. NO.	REPLACED OR SUPERSEDED BY	CURRENT RCAF APPROVED SPECIFICATION
DEF 2403 DEF 2402	DEF 2403, Grade B DEF 2402 (Diesel 45/30)	3-GP-3 Type 1 3-GP-6b Types A and C, Am 1
BS 245	BS 245	3-GP-8a Am 1
DEng RD 2486 Issue 3 Am 1	DEng RD 2486 Issue 3 Am 1 and 2	3-GP-22e Am 1
DEng RD 2492 Issue 1	DEng RD 2494 Issue 2	3-GP-23e Am 1
DEng RD 2498 Issue 1	DEng RD 2498 Issue 1 Am 1	3-GP-24d Am 1
DEng RD 2485 Issue 3 Am 1	DEng RD 2485 Issue 3 Am 1 and 2	3-GP-25d Am 1
DTD 585 Am 1	DTD 585 Am 1 and 2	3-GP-26b Am 1
DTD 900/4276	DTD 900/4276	3-GP-31
DTD 44D	DEF 2001A	3-GP-38a
DEng RD 2472 Issue 2	DEng RD 2472 B/O Issue 2	3-GP-100b Am 1
DTD 900/4205	DTD 900/4205	3-GP-335b
CS 3108	CS 3108 (OEP 14)	3-GP-336
CS 2758	CS 3000A (OEP 38)	3-GP-340a Am 1
CS 2463	DEF 2101B (OMD 40) Am 1	3-GP-345a Am 2
CS 2463	DEF 2101B (OMD 110)	3-GP-365a
CS 2463	DEF 2101B (OMD 330) Am 1	3-GP-395a
CS 3106	CS 3106 (OX-8)	3-GP-510c Am 1
DTD 844A	DTD 844B	3-GP-606 Am 1
DEF 2302	DEF 2302 (ZX-7)	3-GP-662a
CS 1869B	DEF 2333 Grade PX7	3-GP-665a
DEF 2261	DEF 2261	3-GP-682 Am 2
CS 1656F	CS 3107 (XG-279)	3-GP-685b
CS 1657D	CS 2985 (LG-320)	
CS 1879C	DEF 2221a (LG-380)	3-GP-687 Am 1
DTD 900/4609	DTD 900/4609	3-GP-688 Am 2
DTD 900/4420	DTD 900/4420	
DTD 900/4439	DTD 900/4439	
DTD 878	DTD 878A	3-GP-690a Am 2
DTD 369	DTD 369A	3-GP-801
DTD 392	DTD 392	3-GP-802a
DTD 779	BS-3150	3-GP-850a
DEng RD 2487 Issue 3	DEng RD 2487 Issue 4 Am 1	3-GP-905
DTD 121D	DEF 2331	31-GP-3
CS 2060	CS 2060C	31-GP-4
BS 148	BS 148 1959 (OM16)	CSA-C50, 56
DEng RD 2485 Issue 3 Am 1	DEng RD 2485 Issue 3 Am 1 and 2	DEng RD 2485 Issue 3 Am 1 and 2 (Gasoline Grade 73)
DTD 900/4081	DTD 900/4081	DTD 900/4081
DTD 900/4222	DTD 900/4222	DTD 900/4222
DEF 2001	DEF 2001A	MIL-L-644B
DTD 900/4286	DTD 900/4671	MIL-T-5542B
DTD 5540	DTD 5540	MIL-H-6083B Type 1
DTD 822A	DTD 822A Am 1	MIL-L-6085A Am 2
DTD 900/4643 Grade L	DTD 581B Grade OEP 30	MIL-L-6086B Grade L

REPLACED OR  
SUPERSEDED BY

CURRENT  
RCAF APPROVED  
SPECIFICATION

SPEC. NO.

DTD 581A  
CS 606F  
DTD 866  
DTD 900/4351  
DEng RD 2491

DTD 581B Grade OEP 70  
DEF 58  
DTD 866  
DTD 900/4351  
DEng RD 2491 Issue 1

MIL-L-6086B Grade M  
MIL-A-6091B  
MIL-G-7421B Am 1  
MIL-A-8243A  
O-M-232d Grade A

# UNITED STATES SPECIFICATIONS

16 United States Specifications are as listed:

SPEC NO.	REPLACED OR SUPERSEDED BY	CURRENT RCAF APPROVED SPECIFICATION
VV-M-561A	VV-G-76	3-GP-1c Am 1
VV-K-211C	VV-K-211C Am 1	3-GP-3 Type 1
MIL-F-896	VV-F-800	3-GP-6b Am 1
P-S-661b	P-S-661b Type 1	3-GP-8a Am 1
AN-F-58A	MIL-F-5624F	3-GP-22e Am 1
		3-GP-24d Am 1
AN-F-48B	MIL-F-5572C	3-GP-25d Am 1
AN-O-366	MIL-O-5606A Am 2	3-GP-26b Am 1
VV-G-109	VV-G-109	3-GP-27b Am 1
AN-C-116	MIL-L-5020A Am 1	3-GP-31
VV-L-825	3-GP-44a	3-GP-44a Am 3
MIL-L-6082B	MIL-L-6082C	3-GP-100b Am 1
VV-P-216	VV-P-216	3-GP-325 Am 1
AN-O-6	MIL-L-7870A	3-GP-335b
MIL-L-10324	MIL-L-10324A	3-GP-336
MIL-L-2104A	MIL-L-2104A	3-GP-345a, Am 2,
		3-GP-365a, 3-GP-395a
MIL-L-45199	MIL-L-45199 Grade 10	3-GP-346a
	MIL-L-45199 Grade 30	3-GP-366a
2-126, Grade 1	MIL-L-21260 Grade 1	3-GP-347a Am 1
MIL-L-17331B	MIL-L-17331B Am 1	3-GP-357Ta Am 2
2-126, Grade 2	MIL-L-21260 Grade 2	3-GP-367a
MIL-L-002105A	MIL-L-2105A	3-GP-360b
		3-GP-390b Am 1
MIL-L-15019A	MIL-L-15019B	3-GP-440 Am 1
VV-H-910	MIL-F-2111	3-GP-510C Am 1
AN-F-13	MIL-F-5566 Am 1	3-GP-525a Am 1
O-E-760A	O-E-760B	3-GP-530
MIL-L-4343A	MIL-L-4343A Am 1	3-GP-605
AN-G-10	MIL-G-7118 Am 2	3-GP-606 Am 1
VV-L-751	VV-L-751A Type 1 Grade C	3-GP-662a
AN-P-51	VV-P-236	3-GP-665a
AN-G-15A	MIL-L-7711A	3-GP-682a Am 2
AN-G-3A	MIL-G-10924B	3-GP-685b
2-106	MIL-G-10924	3-GP-685b
2-107	VV-G-632	3-GP-685b
2-108a	MIL-G-10924	3-GP-685b
2-109	VV-G-632	3-GP-685b
AN-G-14A	MIL-G-6032 Am 1	3-GP-686a Am 1
M-319A	MIL-G-6032	3-GP-686a Am 1
MIL-G-25537	MIL-G-25537 Am 1	3-GP-687 Am 1
MIL-G-21164	MIL-G-21164A	3-GP-688 Am 2
MIL-G-25760A	MIL-G-25760A Am 1	3-GP-689 Am 1
AN-G-5A	MIL-L-3545A	3-GP-690a Am 2
JAN-A-669	TT-A-580a Am 1	3-GP-801
AN-C-147	MIL-T-5544A	3-GP-802a
AN-G-24a	MIL-G-6711	3-GP-805
MIL-M-7866	MIL-M-7866A	3-GP-806
AN-E-2C	MIL-E-5559	3-GP-850a

## UNITED STATES SPECIFICATIONS (Cont'd)

SPEC. NO.	REPLACED BY SUPERSEDED BY	CURRENT RCAF APPROVED SPECIFICATION
O-E-771A	O-A-548A	3-GP-854 Am 1
AN-O-9A	MIL-O-6081B Am 4	3-GP-900 Am 1
AC-3519-1		3-GP-901 Am 1
MIL-L-17778A	MIL-L-9000E	3-GP-903a
MIL-L-7808c	MIL-L-7808E	3-GP-904 Am 2
MIL-C-16173A	MIL-C-16173B	31-GP-3
		31-GP-4
MIL-C-6708	MIL-C-11796B Grade 1	31-GP-5
AN-C-52B Type 2		
MIL-C-15074	MIL-C-15074A	31-GP-9
JAN-C-149 Type 2	43-GP-6 Type 2	43-GP-6a Type 2
MIL-L-644	MIL-L-644A	MIL-L-644B
MIL-L-3150	MIL-L-3150	MIL-L-3150
AN-C-86B	MIL-T-5542B	MIL-T-5542B
AN-VV-C-576B	MIL-C-5545A	MIL-C-5545A Am 1
MIL-C-6529A		
MIL-C-7853		
MIL-O-6083B	MIL-O-6083 Type 1	MIL-O-6083B Type 1
AN-O-11	MIL-L-6085A Am 1	MIL-L-6085A Am 2
AN-O-3	MIL-L-6086A	MIL-L-6086B Am 1
AN-A-18	MIL-A-6091A	MIL-A-6091B
MIL-C-6529C Type 1	MIL-C-6529C Type 1	MIL-C-6529C Type 1 Am 2
MIL-F-7024 Type 11	MIL-F-7024 Type 11	MIL-F-7024 Type 11
MIL-G-7421A	MIL-G-7421B	MIL-G-7421B Am 1
MIL-C-8188B	MIL-C-8188C	MIL-C-8188C
MIL-A-8243A	MIL-A-8243A	3-GP-856
MIL-L-8383A	MIL-L-8383B	MIL-L-8383B
MIL-L-17672	MIL-L-17672	MIL-L-17672
MIL-L-25336	MIL-L-25336	MIL-L-25336A
MIL-L-26087	MIL-L-26087	MIL-L-26087
MIL-F-27351	MIL-F-27351	MIL-F-27351
O-M-232b Grade A	O-M-232C Grade A	3-GP-531
TT-T-656a	TT-T-656a Am 1	TT-T-656a Am 1

## ITEM CHANGES - DELETIONS

17 Items which have been deleted are listed hereunder:

34A/168	Anti-seize and sealing compound - aluminum alloy	Superseded by 3-GP-686a (9150-21-802-4306) Am 1
34A/68	Lubricant anti-solvent	Cancelled
34A/1	Gasoline, 80 octane	Superseded by 3-GP-25d (9130-11-000-2000)
34A/79	Gasoline, 91/96 octane	Not stocked Refer to EO 45-1-2
34A/210	Gasoline automotive, 80 octane	Superseded by 3-GP-1c (9130-21-802-4287) Am 1
34A/126	Grease, low temperature	Superseded by 3-GP-685b
34A/63	Grease, wheel drive	Superseded by 3-GP-685b (9150-21-802-4319)
34A/6	Grease, GP #0	Superseded by 3-GP-685b (9150-21-802-4319)
34A/64	Grease, GP #1	Superseded by 3-GP-685b (9150-21-802-4319)
34A/179	Oil, lubricating (100 grade) heavy	Superseded by 3-GP-100b Am 1 (9150-21-802-4289)
34A/199	Oil, lubricating, mineral, transmission SAE 140	Superseded by 3-GP-390b (9150-21-802-4294)
34A/9	Oil castor pure	Cancelled
34A/10	Oil castor treated	Cancelled
34A/44	Oil lubricating SAE 60	Cancelled
34A/15	Oil (120 grade) extra heavy	Cancelled
34A/84	Oil, flushing	Cancelled
34A/92	Oil, ME, heavy duty	Superseded by 3-GP-345a Am 2 (9150-21-802-4307)
6850-21-801-4383	Corrosion preventive inhibiting oil	MIL-C-6529C Type DNE
6850-21-802-3299	Oil, anti-corrosive, aircraft Engine coolant system (internal)	Cancelled
34A/86	Rust ban 347	Superseded by (Grease) 3-GP-690b (9150-21-802-4300)

34A/82	Grease, Link trainer	Superseded by 3-GP-690b (9150-21-802-4300)
34A/5	Grease, water pump	Superseded by 3-GP-685b (9150-21-802-4319)
34A/94	Oil, anti-corrosive	Superseded by MIL-C-5545A (6850-21-802-4383)
34A/171	Anti-freeze (used)	Cancelled
34A/21	Oil, lubricating SAE 20W	Superseded by 3-GP-351a (9150-21-802-4302)
34A/22	Oil, lubricating SAE 30	Superseded by 3-GP-365a (9150-21-802-6750)
34A/23	Oil, lubricating SAE 40	Superseded by 3-GP-375a (9150-21-802-4308)
34A/20	Oil, lubricating SAE 50	Superseded by 3-GP-395a (9150-21-802-4298)
34A/73	Oil watch	Cancelled
34A/158	Fuel aviation turbine type 1	Cancelled
34A/198	Oil transmission mineral	Cancelled
34A/216	Alcohol, denatured ME	6810-21-802-3438 (5 gal tins)  34A/6810-21-802-3439 (45 gal drums)
9150-21-800-4437	Lubricating oil aircraft (Esso aviation 57)	Superseded by 9150-21-803-7962
6850-21-801-4671	Inhibitor corrosion lube oil (OX-275)	Cancelled
9150-21-802-4291	Oil lubricating reciprocating engines, light (65 Grade) Avoil 65)	Superseded by 9150-21-807-0707
9150-21-802-4288	Oil lubricating reciprocating engines, medium (80 Grade) (Avoil 80)	Superseded by 9150-21-807-0707
9150-21-802-2922	Hydraulic fluid mixture	Superseded by 8030-00-265-9413

## ITEM CHANGES - ADDITIONS

18 Items which have been added are listed hereunder:

9150-21-802-2922	Oil, cylinder compounded	3-GP-440
6810-21-802-4037	Thrust augmentation fluid	3-GP-531
9150-21-802-2925	Lubrication oil, aircraft turbine engine synthetic 7.5 CST	3-GP-905
8030-00-265-9412	Corrosion preventive compound hydraulic systems	MIL-O-6083B type 1
8030-21-802-4073	Lubricant anti-seize (Fel Pro C5)	MIL-A-907
9150-21-802-4095	Lubricant molybdenum disulphide (molycote)	
9150-00-577-4241	Oil, lubricating	MIL-L-26087
6850-21-800-7618	Silicone compound (DC7)	
9150-21-800-4803	Lubricating oil GP preservative	MIL-L-644B
9150-21-801-4106	Grease extreme low temp.	MIL-G-7421B Am 1
9130-21-801-4670	Gasoline unleaded (grade 73)	DEng RD 2485 Issue 3 Am 1 and 2
(C/V to 9130-11-000-2001)		
9150-21-578-2230	Grease aircraft; helicopter oscillating bearing	MIL-G-25537 Am 1
9150-21-802-5354	Grease aircraft; ball and roller bearing	3-GP-689
9130-11-000-2006	Turbine fuel (type 1)	3-GP-23E
6810-21-802-3428	Alcohol, denatured ME	3-GP-530
6810-21-802-3439	Alcohol, denatured ME	3-GP-530
6850-00-582-4685	De-icing, defrosting fluid aircraft surfaces	3-GP-856
8030-00-950-2081	Anti-seize compound high temperature (Texacone Ease-Off 990)	MIL-A-907
9150-21-805-3276	Lubricant molykote M88	
9150-00-282-7407	Graphite colloidal (DGF123)	
9150-21-805-3669	Lubricating oil gear	3-GP-91

9150-00-754-0064	Lubri-Bond "A"	
9150-21-801-4287	Grease aircraft and instrument	DTD 900/4222
9150-00-754-2595	Grease molybdenum disulphide (low and high temp)	3-GP-688 Am 1
9150-21-803-3661	Lubricating oil aircraft and turbine engine	MIL-L-25336A
9150-21-803-7963	Grease aircraft and instrument (KS7471)	
9150-21-803-7962	Lubricating oil instrument (KS7470)	
9150-21-805-2571	Lubricating oil int. comb. engine	3-GP-346a
9150-21-805-2572	Lubricating oil int. comb. engine	3-GP-366a
9150-21-807-0707	Piston engine oil, dispersant Grade D1080	3-GP-315
9150-21-807-0708	Piston engine oil, dispersant Grade D1100	3-GP-320
9150-21-805-6772	Grease, rifle	Proprietary product
9150-21-806-7130	Grease, high temp	Proprietary product
9150-21-806-1537	Grease, aircraft and instrument	Proprietary product
2640-00-281-5688	Lubricant tire and rim	MIL-L-8362
9150-21-806-3150	Grease MOS <sub>2</sub>	Proprietary product
9150-21-806-0101	Lubricant high temp	Proprietary product
9150-00-577-4512	Hydraulic fluid	Proprietary product
9150-21-808-3221	Hydraulic fluid	Proprietary product
9150-21-807-4785	Silicone oil	Proprietary product
9150-21-807-4015	Lubricating oil, sub 0°	3-GP-343
9150-21-807-3080	Oil, automatic transmission	Proprietary product
9150-21-805-2570	Lubricating oil, general purpose	MIL-L-17672
9150-21-806-1544	Oil, corrosion preventive	MIL-G-8188C
9150-00-753-4823	Lubri-Bond "B"	
9150-21-810-6097	Lubricating oil	Proprietary product
9150-21-806-3377	Lubricating oil	Proprietary product



9150-21-806-0026	Oil, corrosion preventive	MIL-C-6529C
6850-21-806-5093	Oil, corrosion preventive	Proprietary product
9150-21-807-4363	Oil, general purpose preservative	MIL-L-3150
6850-21-806-5109	Calibrating fluid	MIL-F-7024
6850-00-754-2670	Ramjet Test Fluid	MIL-F-27351
9130-00-273-2379	Aviation turbine fuel, high flash kerosene type (JP5)	3-GP-24d Am 1
9150-21-811-8912	Lubricating oil gear multi- purpose (Grade 140)	3-GP-420



RCAF Stock No.	Description	Application	Approved Specifications	NATO Symbol	Status
8030-21-801-8607	Anti-seize compound, aircraft, graphite petroleum	Suitable for use on aircraft engine spark plug threads (except R3350 engines) and other applications involving high temperatures. Not for use in lieu of 3-GP-801 (34A/8030-21-802-4304)	Canada 3-GP-802a Am 1 US MIL-T-5544A UK DTD-392 Belgium DSM-401A France AIR-4247 Italy AM-G-341c	S-720 S-720 S-720 S-720 S-720	Standardized Standardized Standardized Standardized Standardized
8030-00-243-3284	Anti-seize compound, aircraft, oxygen system	Oil and fat free anti-seize and sealant for threaded fittings of aircraft oxygen systems.	Canada MIL-T-5542B US MIL-T-5542B UK DTD-900/4671 France AIR-4286 Italy AM-G-344	S-717 S-717 S-717 S-717 S-717	Standardized Standardized Standardized Standardized Standardized
8030-21-802-4304	Anti-seize compound, white lead	A compound containing white lead, petroleum, graphite oil and asphalt. For use as a general purpose anti-seize compound for threaded fittings or jointing compound between dissimilar metals for steam, water and oil at pressures up to 150 psi and temperatures up to 177°C (350°F).	Canada 3-GP-801 Am 1 US TT-A-580a Am 1 Belgium DSM-406A Italy AM-G-348b UK DTD-369A	S-725 S-725 S-725 S-725 S-726	Standardized Standardized Standardized Standardized Emergency
9150-21-802-4306	Grease plug valve, hydrocarbon resistant	A non-hardening, smooth, homogeneous compound of vegetable oils, glycerols and soaps, intended for use as a gasket paste and for the lubrication of bearings on some types of fuel pumps, taper plug valves, carburettor parts, fuel and oil drain valves, and other aircraft fuel and oil system fittings.	Canada 3-GP-686b Am 1 US MIL-C-6032A Belgium DSM-426A France AIR-4214A Italy AM-G-313e	G-363 G-363 G-363 G-363 G-363	Standardized Standardized Standardized Standardized Standardized
8030-21-802-4077	Compound, anti-seize high temperature	A non-hardening, non-corrosive, metallic lead base anti-seize compound which may be used on joints exposed to temperature ranges of -74°C + 1595°C (-100°F to + 2967°F) and pressures up to 6000 psi.	Led Plate #250 product of Armité Laboratories.		
9620-21-802-4080	Graphite powder	This is the only grade of graphite required for aircraft lubrication, and is used as a dry lubricant.	Canada 3-GP-805 Am 2 US MIL-G-6711 Belgium DSM-649A France AIR-4224 Italy AM-C-346C	S-732 S-732 S-732 S-732 S-732	Standardized Standardized Standardized Standardized Standardized

Table 1 Anti-Seize and Sealing Compounds

RCAF Stock No.	Description	Application	Approved Specifications	NATO Symbol	Status
9620-21-802-4080	Graphite	Graphite Oil; Unless otherwise specified proportions are 1 gal of oil 9150-21-802-2923, 9150-21-802-4291, 9150-21-802-4288 or 9150-21-802-4289 in 1 lb of graphite.  Graphite Grease: 95% grease 9150-21-802-4309 5% graphite.			
8030-21-802-4073	Compound, anti-seize high temperature, colloidal copper,	A colloidal copper based anti-seize agent for use on threaded assemblies, flanges, stud bolts, aircraft engine exhaust pipe, ball and sleeve joints, where temperatures up to 982°C (1800°F) are encountered. Also for use on spark plug threads on certain aircraft engines.	Proprietary Product FEL PROC 5 MIL-A-907		
9150-21-802-4075	Lubricant Molybdenum Disulphide (ready mixed)	In paste or liquid form for use on threaded connections, toggle joints, stud bolts, and some aircraft engine accessory spline drives where temperatures do not exceed 399°C (750°F). Type to be specified when demanding. (Refer to applicable EOs for correct type).			
8030-00-950-2081	Compound, anti-seize high temperature	High temperature anti-seize compound for use on steel nuts and bolts at temperatures up to 1050° F. For use on hot sections of CF101 and CF104 aircraft. See applicable A/C EO's for use	Proprietary Product Texacone Ease-Off 990 MIL-A-907		

Table 1 Anti-Seize and Sealing Compounds (Cont'd)

RCAF Stock No.	Description	Application	Approved Specifications	NATO Symbol	Status
6810-21-802-4382	Molybdenum Disulphide Powder	<p>A metallic powder, mixed with oil or grease, provides a residual film and anti-seize lubricant for applications such as spline drives and pivot points where frequent lubrication is not possible.</p> <p style="text-align: center;"><b>CAUTION</b></p> <p style="text-align: center;">DO NOT USE AS A DRY LUBRICANT.</p> <p>As minor skin irritations to personnel may result, caution must be observed when handling the powder, rubber gloves or protective hand cream should be used.</p> <p style="text-align: center;"><u>NOTE</u></p> <p>Unless otherwise specified, the mixture ratios are:  Oil: one quart 3-GP-335a (34A/9150-21-802-2923) to one lb molybdenum disulphide.  Grease: Two lbs. grease 3-GP-682a (34A/9150-21-802-4309) to one lb. molybdenum disulphide. (When mixed with oil or grease, molybdenum disulphide is not toxic and does not contribute to corrosion. Remix before using to ensure a uniform dispersion.</p>	Canada 3-GP-806Am I US MIL-M-7866A France AIR-4223 Italy AM-G-376b Belgium DSM-650B	S-740 S-740 S-740 S-740 S-740	Standardized Standardized Standardized Standardized Standardized
9150-21-809-0079	Graphite colloidal	Intended for lubrication of certain airframe sections of the CF101B aircraft.	Proprietary Product (DGF123)		
9150-00-282-7407	Graphite colloidal	Expeditior tail wheel slide tube lubricant	Proprietary Product Bryco Day-Graph		



RCAF Stock No.	Description	Application	Approved Specifications	NATO Symbol	Status
9150-21-802-4074	Lubricant, anti-solvent Grade 1	For all-weather use in pumping equipment where bearings operate in liquid	Imperial Oil Product		

Table 2 Anti-Solvents





RCAF Stock No.	Description	Application	Approved Specifications	NATO Symbol	Status
9150-21-802-4299	Compass fluid aircraft, petroleum	A fluid consisting essentially of petroleum, for use as liquid in magnetic aircraft compasses.	Canada US Belgium Italy France UK 3-GP-31 Am 1 MIL-L-5020A Am 1 BA-PS-601 AM-L-441d MIL-L-5020A Am 1 DTD900/4276	S-712 S-712 S-712 S-712 S-712 S-712	Standardized Standardized Standardized Standardized Standardized Standardized



RCAF Stock No.	Description	Application	Approved Specifications	NATO Symbol	Status
6850-21-802-4078	Anti-freeze automotive engine	For use in mobile equipment and where otherwise specified.  <u>NOTE</u> Freezing point of glycol/water solutions by volume: Glycol 30% - 15°C (5°F) Glycol 50% -40°C (-40°F) Glycol 60% -51°C (-60°F)	Canada 3-GP-854 Am 3 France DCEA/65B US O-A-548A Type 1 Canada 3-GP-850a	S-750 S-750 S-750 S-735	Standardized Standardized Standardized Emergency
6850-21-572-4610	Anti-freeze aircraft engine (1 gal.)	A corrosion inhibited non-volatile coolant and anti-freeze for use in liquid cooled aircraft engines. This product should not be used in mobile equipment where a substitute (34A/6850-21-802-4078) is available.	Canada 3-GP-850a Am 1 UK BS-3150 Belgium BA-PS-606 Italy AM-L-403d	S-735 S-735 S-735 S-735 S-750	Standardized Standardized Standardized Emergency Substitute
6850-21-802-4384	1 Qt. container				
		<b>WARNING</b>  Ethylene glycol while undiluted will freeze at about -17.8°C (0°F). For use at lower temperature, water must be added as required to obtain a lower freezing point (EO 10A-1-2U).			



RCAF Stock No.	Description	Application	Approved Specifications	NATO Symbol	Status
6810-21-802-4079	Ethanol, denatured	<p>Denatured ethyl alcohol is intended for use in de-icing aircraft propellers, carburetors, wind-screens and other uses where specified. Restricted Supply. Normally use 34A/6810-21-802-3298.</p> <div data-bbox="662 880 726 1046" style="border: 1px solid black; padding: 2px; text-align: center; width: fit-content; margin: 10px auto;"> <b>WARNING</b> </div>	<p>Canada MIL-A-6091B                      US MIL-A-6091B                      UK DEF58                      Belgium DSM-304C                      France AIR-3655                      Italy AM-L-422d</p>	<p>S-738                      S-738                      S-738                      S-738                      S-738                      S-737</p>	<p>Standardized                      Standardized                      *Standardized                      Standardized                      Standardized                      Standardized                      Acceptable</p>
6810-21-802-3298	Isopropanol, technical	<p>For use on aircraft propellers carburetors, wind-screens, and other uses where specified.</p> <div data-bbox="1117 890 1181 1056" style="border: 1px solid black; padding: 2px; text-align: center; width: fit-content; margin: 10px auto;"> <b>WARNING</b> </div>	<p>Canada 3-CP-525b                      US MIL-F-5566                      Am 3                      Belgium BA-PS-604                      France AIR-3660                      Italy AM-L-421c</p>	<p>S-737                      S-737                      S-737                      S-737                      S-737</p>	<p>Standardized                      Standardized                      Standardized                      Standardized                      Acceptable</p>

This material is a deadly poison if taken internally. Internal consumption will cause death. There is no antidote. It cannot be rendered non-poisonous. It is never to be used in unventilated spaces. Repeated inhalation of vapours has the same effect as consumption by mouth. Treatment consists of repeated drinking of warm water to induce vomiting.

\* Not to be used in British compasses using ethanol as compass fluid.

This material is a deadly poison if taken internally. Internal consumption will cause death. There is no antidote. It cannot be rendered non-poisonous. It is never to be used in unventilated spaces. Repeated inhalation of vapours has the same effect as consumption by mouth. Treatment consists of repeated drinking of warm water with induced vomiting.

RCAF Stock No.	Description	Application	Approved Specifications	NATO Symbol	Status
6810-21-802-3438	Alcohol, denatured ME (5 gal tin)	For anti-icing ME fuel systems.	Canada 3-GP-530 Am 1 US O-E-760B		
6810-21-802-3439	Alcohol, denatured ME (45 gal drum)	For anti-icing ME fuel systems.	Canada 3-GP-530 US O-E-760B		
6850-00-582-4685	De-icing, defrosting fluid, Aircraft surfaces	For use in removing frost and ice from the surface of parked aircraft and to prevent the formation of ice and frost on such surfaces. Not for use in propellor or carburettor de-icing systems. Only for removing or preventive formation of ice or frost on external airfoil surfaces	Canada 3-GP-856 Am 1 US MIL-A-8243A UK DTD900/4351 Belgium PQ353 France MIL-A-8243A Am 1	S-742 S-742 S-742 S-742 S-742	Standardized Standardized Standardized Standardized Standardized

Table 5 De-icing Fluids (Cont'd)

RCAF Stock No.	Description	Application	Approved Specifications	NATO Symbol	Status
9130-11-000-2000	Gasoline aviation, Grade 80/87	Leaded fuel, for small aircraft engines, EO 45-1-2. (These fuels are interchangeable except that F-14 only must be used in Gypsy Major Mk. 1 engines).	Canada 3-GP-25d Am 3 US MIL-G-5572c Belgium BA-PF-5 France AIR-3401/G Am 1 Italy AM-O-102c	F-12 F-12 F-12 F-12 F-12 F-15 F-18 F-22	Standardized Standardized Standardized Standardized Standardized Emergency Substitute Emergency Substitute Emergency Substitute
9130-11-000-2002	Gasoline aviation, Grade 91/96	Highly leaded aviation gasoline for medium powered aircraft engines (no longer stocked in Canada)	Canada 3-GP-25d Am 1 US MIL-G-5572c	F-15 F-15 F-18 F-22	Standardized Standardized Acceptable Acceptable
9130-11-000-2003	Gasoline aviation, Grade 100/130	Used for cargo, combat and Transport aircraft EO 45-1-2	Canada 3-GP-25d Am 1 US MIL-G-5572c UK DEngRD2485 Issue 3 Am 1 and 2 Belgium BA-PF-5A France AIR-3401/G Am 1 Italy AM-C-104c	F-18 F-18 F-18 F-18 F-18 F-18 F-22 F-15	Standardized Standardized Standardized Standardized Standardized Standardized Acceptable Emergency
9130-11-000-2004	Gasoline aviation, Grade 115/145	Used for cargo, combat and transport aircraft. EO 45-1-2.  NOTE: UK-F15 is not acceptable for Beverley and Shackleton aircraft	Canada 3-GP-25d Am 3 US MIL-G-5572c UK DEngRD2485 Issue 3, Am 1 and 2 Belgium BA-PF-5 France AIR-3401/G Am 1 Italy AM-C-105c	F-22 F-22 F-22 F-22 F-22 F-22 F-18	Standardized Standardized Standardized Standardized Standardized Standardized Emergency
9130-21-802-4287	Gasoline, automotive (MEGAS)	For marine and mobile equipment. (In addition to the requirements of the specifications, RCAF automotive gasoline must have a minimum motor rating of 80 octane)	Canada 3-GP-1c Am 2 Am 1 US VV-G-76 UK Belgium France Italy		

RCAF Stock No.	Description	Application	Approved Specifications	NATO Symbol	Status
9130-11-000-2007	Turbine fuel, aviation, wide cut type (US: JP4)  <u>NOTE</u> Freezing Point -60°C F-34 has -50°C F-42 has -40°C F-44 has -48°C	Low vapour pressure, wide cut, gasoline type turbine fuel. For application, see EO 45-1-2.	Canada 3-GP-22e Am 1 US MIL-J-5624F (JP4) UK DEngRD2486 Issue 3 Am 1 and 2 Belgium BA-PF-2 France AIR-3407A Am 1 Italy AM-C-142f	F-40 F-40 F-40 F-40 F-40 F-34 F-42 F-44	Standardized Standardized Standardized Standardized Standardized Emergency Emergency
	<b>WARNING</b> F-34 and F-40 not acceptable for stowage aboard aircraft carriers				
9130-11-000-2006	Turbine fuel aviation, kerosene type (Type 1)	Turbine engine fuel kerosene type.	Canada 3-GP-23e Am 1 UK DEngRD2494 Issue 2	F-34 F-34 F-40 F-42 F-44 F-34 F-34	Standardized Standardized Emergency Emergency Emergency Standardized Standardized
	<b>WARNING</b> F-34 and F-40 not acceptable for stowage aboard aircraft carriers				
	<b>NOTE:</b> Freezing point -50°C - F-42 has -40°C freezing point				
9140-11-000-2014 Type "C" 34A/9140-21-802-4295 Type "D" 34A/9140-21-802-4296 Type "B"	Diesel fuel, regular	For marine and mobile equipment, specification 3-GP-6b lists the seasonal requirements of diesel fuel by grade for various Canadian localities.	Canada 3-GP-6c Am 1 Type C US VV-F-800 Class DF-2  UK DEF/2402 (diesel 45/30)	F-54 F-54 F-52 F-75 F-76 F-78 F-79	Standardized Standardized Acceptable Acceptable Acceptable Acceptable Emergency
34A/9140-11-000-2015 Type "A"	Diesel fuel, sub-zero	For marine and mobile equipment, specification 3-GP-6b lists the seasonal requirements of diesel fuel by grade for various Canadian localities.	Canada 3-GP-6b Am 1 Type "A" US VV-F-800 Class DF-A	F-56 F-56	Standardized Standardized

Table 6 Fuels (Cont'd)



RCAF Stock No.	Description	Application	Approved Specifications	NATO Symbol	Status
9140-21-802-4321	Kerosene	For general heating and illuminating purposes in stoves, lanterns, etc.	Canada US Belgium France Italy UK 3-GP-3 Am 1 type 1 VV-K-211C Am 1 QOG 57A DCEA/11B E/C-1061 DEF-2403 Grade B	F-58 F-58 F-58 F-58 F-58 F-58 F-59	Standardized Standardized Standardized Standardized Standardized Standardized Acceptable
9130-21-802-4322	Fuel, naphtha	For use in pressure lighting and burning equipment, such as lamps, lanterns, blow torches, gasoline stoves, etc.	Canada US 3-GP-27b Am 1 VV-G-109		
9130-11-000-2001	Gasoline, unleaded (grade 73)	Intended for inhibiting the fuel system of the Napier Eland engine, mixed with turbine oil 1010 to specification 3-GP-901.	UK DEngRD2495 Issue 3, Am 1 and 2		
9130-00-273-2379	Turbine fuel aviation, high flash type (US: JP5)  <u>NOTE</u> F-44 freezing -48°C F-42 freezing -40°C F-34 freezing -50°C	For application see EO 45-1-2.	Canada US UK 3-GP-24d Am 3 MIL-J-5624F (JP5) DEngRD2498 Issue 1, Am 1	F-44 F-44 F-44 F-34 F-40 F-42	Standardized Standardized Standardized Acceptable Acceptable Emergency

**WARNING**

F-34 and F-40 not acceptable for stowage aboard aircraft carriers.



RCAF Stock No.	Description	Application	Approved Specifications	NATO Symbol	Status
9150-21-802-4300	Grease, aircraft high temperature	For engine driven accessories and wheel bearings. This grease is suitable for high speed, high temperature ball and roller bearings and related applications and is recommended for use in hot running equipment when low temperature torque values are not critical and where water resistance is required.	Canada US UK Belgium France Italy AM-C-302d	C-359 G-359 C-359 G-359 C-359 G-359 C-382	Standardized Standardized Standardized Standardized Standardized Standardized Emergency Substitute
9150-21-805-3726	Lubricant Molykote	An air dry bonded lubricant which can be applied to metal, plastic, rubber and many other surfaces by brushing, spraying, dipping or tumbling and dries at room temperature.	Proprietary Product (M-88)		
9150-21-578-2230	Grease, aircraft helicopter oscillating bearing	For use in Sikorsky main and tail rotor bearings.	Canada US UK Italy 3-GP-687a Am 1 MIL-G-25537 Am 1 DTD900/4609 AM-C-306	G-366 G-366 G-366 G-366	Standardized Standardized Standardized Standardized
9150-21-802-4309	Grease aircraft general purpose	Engine driven accessories. Used for anti-friction bearings, gears, and other mechanisms for high speed medium temperature operation, most electrical equipment bearings, magneto gears and starter bearings. Satisfactory for operation between -40°C (-40°F) and 121°C (250°F). Where sufficient torque is available it may be used down to -54°C (-65°F). It is unsuitable as a wheel bearing lubricant due to lack of corrosion protection at conditions of high humidity.	Canada US UK Belgium France Italy 3-GP-682b MIL-G-7711A DEF-2261 BA-PG-401 AIR-4215A Am 1 AM-C-303C	C-382 G-382 G-382 G-382 G-382 G-382 G-382 G-359	Standardized Standardized Standardized Standardized Standardized Standardized Standardized Emergency Substitute
9150-21-801-4287	Grease, aircraft and instrument	An extremely wide temperature range grease. Intended for lubrication of the Step Transmitter in the 6E/708 integrator unit which is part of the R Theta DR computer system installed in the CF100 aircraft.	UK DTD900/4222		

Table 7 Greases

RCAF Stock No.	Description	Application	Approved Specifications	NATO Symbol	Status
9150-21-802-4316	Grease, aircraft, silicone, pneumatic system	For sliding rubber to metal lubrication of sliding seals rotating seals and quick disconnects, pressurized cabin bulkheads and other applications requiring rubber to metal lubrication.	Canada US Belgium Italy France 3-GP-605a MIL-L-4343A Am 1 DSM-427A Am 2 AM-G-321b MIL-L-4343A Am 1	G-392 G-392 G-392 G-392 G-392 G-394	Standardized Standardized Standardized Standardized Standardized Emergency Substitute
6850-21-800-7618	Silicone compound (DC (7))	For use on starter on Neptune aircraft	Proprietary product manufactured by Dow Corning Silicones Ltd.		
9150-21-802-4317	Grease, gear	For outboard motor gear cases, teletype or crypto machines.	Canada 3-GP-601, Am 1		
9150-21-802-5354	Grease, aircraft, synthetic	For use in ball and roller bearings particularly designed for wheel bearings in internal brake wheel assemblies which must function at temperatures -54°C (-65°F) yet for short periods of time during braking operation during which wheel bearing temperatures may be in excess of 177°C (350°F).	Canada US Belgium France 3-GP-689a MIL-G-25760A Am 1 BA-PG-402 MIL-G-25760A Am 1	G-361 G-361 G-361 G-361	Standardized Standardized Standardized Standardized
9150-21-802-4318	Grease, aircraft, synthetic extreme pressure	For use in gears, screws, worms, sprockets, and chains where a mild extreme pressure lubricant is required for both low and high temperatures, and where better load carrying capacity than that provided by 34A/9150-21-802-4311 is required. May be used on anti-friction bearings where equipment design requires use of a single lubricant for both bearings and gears or screws.	Canada US UK Belgium France Italy 3-GP-606A MIL-G-23827 DTD-844B BA-PG-403 AIR-4210A AM-G-312d	G-354 G-354 G-354 G-354 G-354 G-354	Standardized Standardized Standardized Standardized Standardized Standardized

Table 7 Greases (Cont'd)

RCAF Stock No.	Description	Application	Approved Specifications	NATO Symbol	Status
9150-21-802-4319	Grease, automotive and artillery	For the lubrication of automotive and artillery materiel under all conditions of service where ambient temperatures range from minus 55° C (-65° F) to plus 52° C (125° F)	Canada 3-GP-685b US MIL-G-10924B France DCEA/76b Italy EG/1303 UK CS/107A UK CS/2985 UK (LG-320) UK DEF/2221a (LG-380)	G-403 G-403 G-403 G-403 G-404 G-405 G-406	Standardized Standardized Standardized Standardized Emergency Emergency Emergency
9150-21-801-4106	Grease aircraft, synthetic extreme low temperature	For use in anti-friction bearings, grease rolling and sliding surfaces for equipment having very low motivating power, some types of electronic equipment and small actuators as found in aircraft where starts at temperatures of -56.7° C (-70° F) or lower may be required.	Canada MIL-G-7421B Am 1 US MIL-G-7421B Am 1 UK DTD-866 France AIR-4226 Belgium MIL-G-7421B	G-352 G-352 G-352 G-352 G-352 G-350	Standardized Standardized Standardized Standardized Standardized Emergency Substitute
		<u>NOTE</u>			
		This grease contains a synthetic oil, therefore it cannot be used where it will come into contact with natural and certain synthetic rubbers.			
9150-21-803-7963	Grease aircraft and instrument	For use in teletype machines	Proprietary product (Northern Electric KS7471)		
9150-00-754-2595	Grease, aircraft, synthetic, molybdenum disulfide	For use as a lubricant on heavily loaded sliding steel surfaces	Canada 3-GP-688a US MIL-G-21164A Belgium DSM-466 France AIR-4217 UK DTD900/4420 DTD900/4439	G-353 G-353 G-353 G-353 G-353	Standardized Standardized Standardized Standardized Standardized
9150-21-808-3490	Lubricant electrofilm graphite colloidal	Intended for the lubrication of fairings and latches on the CF104	Proprietary product (Lubri-Bond "A")		
9150-21-805-6772	Grease rifle	For use in cleaning and care of firearms.	Proprietary product "Hoppe Gun Grease"		
9150-21-806-7130	Grease lubricating, high temperature (DC 44) Silicone insulated	For use on CF104 aircraft and as insulating grease for electric motors	Proprietary product Dow Corning Silicones (DC44)		

RCAF Stock No.	Description	Application	Approved Specifications	NATO Symbol	Status
9150-21-806-1537	Silicone grease aircraft and instrument, type M-77. High temperature and bearing pressure by load characteristics.	For lubrication of natural or synthetic rubber, plastics, leather, nylon or fibre bearings and all metals	Proprietary product Molykote M77 Dow Corning Silicones		
2640-00-281-5688	Lubricant, tire and rim "Ruglyde"	For use when removing aircraft and MSE tires from rims	Canada MIL-L-8362 US MIL-L-8362		
9150-21-806-3150	Grease, Molybdenum disulphide in silicone oil	For lubrication of aircraft, missiles, exposed cocks, valves and instruments at low temperatures	Proprietary product "Molysil 33" DTD900/4630		
9150-21-806-0101	Lubricant high temperature	For use on hot sections of CF101B aircraft engine	Proprietary product Plastilube Moly #3		
9150-21-802-2935	Grease aircraft graphite	For use in heavily loaded intermittent applications, starter gears retracting screws, plain bearings and where frequent lubricating is not possible, not for general use, not for high speed ball or roller bearings.	Canada 3-GP-641B US MIL-P-7187 UK DTD-806 Belgium DSM-424A France AIR-4206A Italy AM-G-311e	G-355 G-355 G-355 G-355 G-351 G-382	Standardized Standardized Standardized Standardized Standardized Emergency
9150-00-754-0064	Dry film lubricant graphite colloidal	Lubrication of CF104 fairing latches	Proprietary product lubri-bond "A"		
9150-00-753-4823	Dry film lubricant graphite colloidal	For use where lasting dry film lubricant required	Proprietary product lubri-bond "B"		

Table 7 Greases (Cont'd)

RCAF Stock No.	Description	Application	Approved Specifications	NATO Symbol	Status
9150-21-578-7501	Hydraulic fluid petroleum	<p>For aircraft hydraulic and auto pilot servo units, shock absorbers, brakes, flap control mechanisms and other hydraulic system components fitted with synthetic rubber glands. This will include all hydraulic jacks test stands, and maintenance platforms.</p> <p style="text-align: center;"><u>NOTE</u></p> <p>"Do not use for ME vehicles". Particular care is to be exercised to ensure that this oil is not used in ME brake systems.</p>	<p>Canada 3-GP-26b Am 3 US MIL-H-5606A Am 2 UK DTD-585 Am 1 and 2 Belgium BA-PH-301 France AIR-3520 Italy AM-O-261B</p>	<p>H-515 H-515 H-515 H-515 H-515 H-515</p>	<p>Standardized Standardized Standardized Standardized Standardized Standardized</p>
9150-21-802-4303	Lubricating oil, general purpose, petroleum, light	<p>General purpose light oil for hydraulic buffers, piston type shock absorbers and general lubricant applications.</p>	<p>Canada 3-GP-38a Am 1 UK DEF-2001A Belgium BA-FO-101 France AIR-3515A Italy AM-O-277C</p>	<p>O-134 O-134 O-134 O-134 O-134 O-142</p>	<p>Standardized Standardized Standardized Standardized Standardized Emergency Substitute except for auto-pilot's and aircraft turbine engines Acceptable</p>
9150-21-802-4374	Hydraulic fluid, aircraft Castor Oil Base	<p>For Comet and other aircraft systems fitted with natural rubber glands.</p>	<p>Canada DTD900/4081 UK DTD900/4081 France DTD900/4081</p>	<p>H-534 H-534 H-534</p>	<p>Standardized Standardized Standardized</p>

Table 8 Hydraulic Fluids

RCAF Stock No.	Description	Application	Approved Specifications	NATO Symbol	Status
9150-21-578-7600	Brake fluid, automotive	Automotive hydraulic brake mechanisms at atmospheric temperature ranges from +37.8°C (100°F) to -54°C (-65°F)	Canada 3-CP-510c Am 1 US VV-H-910a France DCEA/99B Belgium QOG 311B UK CS3106 (OX-8)  Italy E/L 1410A	H-542 H-542 H-542 H-542 H-542 H-543 H-544	Standardized Standardized Standardized Standardized Acceptable Emergency Emergency
9150-21-802-1461	1 Quart container				
9150-00-577-4512	Hydraulic fluid - missile low temperature	For use with GAR 2A missile checkout console	Proprietary product Bray Oil Co. to Hughes aircraft MAT Spec. 20-1124		
9150-21-808-3221	Hydraulic fluid petroleum base	For use in cabin blower of Comet and Cosmopolitan aircraft.	Proprietary product Shell Oil Co. "Aeroshell IAC"		
9150-21-807-4785	Silicone oil, Cleveland Pneumatic Tool Co. Procured in Canada from Dow Corning as Spec. 3801	For servicing main landing gear liquid spring on CF104. A blend of 70% Dow Corning Silicone fluid F-4029, 100 centistokes at 77°F and 30% DC fluid 510, 50 centistokes at 77°F.	Proprietary product		

Table 8 Hydraulic Fluids (Cont'd)



RCAF Stock No.	Description	Application	Approved Specifications	NATO Symbol	Status
9150-21-802-4289	Lubricating oil, aircraft piston engine, Grade 1100	Combat, cargo and transport aircraft, EO 45-1-2.	Canada 3-GP-100b Am 1 MIL-L-6082C Grade 1100 US DEngRD2472 UK B/O Issue 2 Belgium BA-PO-100 France AIR-3560C Italy AM-O-203d	O-117 O-117 O-117 O-117 O-117	Standardized Standardized Standardized Standardized Standardized
9150-21-578-2559	Lubricating oil, aircraft turbine engine petroleum, Grade 1005	Low temperature aircraft turbine engine oil, used where ground temperature is below -30°C (-22°F)	Canada 3-GP-900 Am 4 US MIL-O-6081B Am 4 Grade 1005 Italy AM-O-243	O-132 O-132 O-132	Standardized Standardized Standardized
9150-21-802-2702	Lubricating oil, engine H-D Grade 30	For deisel engines where extra H-D oil is required	US MIL-L-2104A with supplement one		
9150-21-802-2925	Lubricating oil, aircraft turbine engine, synthetic 7.5c St	Intended for use in aircraft turbine engines as specified in EO 45-1-2  <b>CAUTION</b> Only Esso 35 to be used in Yukon aircraft.  <u>NOTE</u> Synthetic oils have a strong solvent action which has a destructive effect on gaskets, seals, electrical insulation and most aircraft paints.	Canada 3-GP-905 Am 1 DEngRD2487 Issue 4 UK AM-O-245a Italy DEngRD2487 Belgium Issue 4 France DEngRD2487 Issue 4	O-149 O-149 O-149 O-149 O-149 O-148	Standardized Standardized Standardized Standardized Standardized Emergency Substitute (up to 50% of O-148), as an emergency substitute, may be placed in an engine containing O-149
9150-21-803-7962	Lubricating oil instrument	For use in teletype and crypto machines.	Proprietary product (Northern Electric KS7470)		

Table 9 Lubricating Oils

RCAF Stock No.	Description	Application	Approved Specifications	NATO Symbol	Status
9150-21-802-2927	Lubricating oil, aircraft turbine engine petroleum, Grade 1010	Aircraft turbine engines where ground temperature is above -30°C (-22°F).	Canada 3-GP-901 Am 4 US MIL-O-6081B Am 4, grade 1010 Belgium BA-PO-106 France AIR-3516 Italy AM-O-242C	O-133 O-133	Standardized Standardized
9150-00-270-0056	Lubricating oil, aircraft turbine engine, synthetic 3.0c St	Intended for use in aircraft turbine engines installed in the following aircraft, CF101B, CF104 and Hercules. Also for the lubrication of H34A helicopter gear boxes.  <u>NOTE</u> Synthetic oils have a strong solvent action which has a destructive effect on gaskets, seals, electrical insulation and most aircraft paints.	Canada 3-GP-904a US MIL-L-7808E Belgium BA-PO-109 France AIR-3513A Italy AM-O-244a	O-148 O-148 O-148 O-148 O-148 O-149	Standardized Standardized Standardized Standardized Standardized Emergency Substitute (up to 50% of O-149 as an emergency substitute may be placed in an engine containing O-148) except for Altar French Engine which only takes O-148
9150-21-803-3661	Lubricating oil aircraft turbine engine	For use in Model 61 M1 winch installed in cargo handling platform 4G/3960-21-801-4737	US MIL-L-25336A		
9150-21-802-2923	Lubricating oil, general purpose, low temperature	For general use can lubrication of instruments, photo equipment accessories, armament and other applications where a low temperature corrosion resistant oil lubricant is required. This oil is NOT compatible with oil, instrument, low volatility synthetic, MIL-L-6085A RCAF Stock No. 9150-21-802-4315, NATO symbol O-147 Pour point: -57°C (-70°F)	Canada 3-GP-335b Am 1 US MIL-L-7870A Italy AM-O-278C Belgium BA-PO-102 UK DTD900/4205	O-142 O-142 O-142 O-142 O-142 O-134 O-135	Standardized Standardized Standardized Standardized Emergency Substitute except for extreme low temperature purposes.

Table 9 Lubricating Oils (Cont'd)

RCAF Stock No.	Description	Application	Approved Specifications	NATO Symbol	Status
9150-21-802-4315	Lubricating oil, instrument synthetic	A synthetic, corrosion - inhibited oil, To be used for aircraft instruments, electronic equipment and where a low evaporation oil is required for both high and low temperature applications and where oxidation and corrosion resistance is desired. This oil is NOT compatible with general purpose low temperature anti-corrosive oil NATO symbol O-142 Pour point: -57°C (-70°F)	Canada MIL-L-6085A Am 2 US MIL-L-6085A Am 2 UK DTD-822A Am 1 Belgium BA-PO-105 France AIR-3511 Italy AM-O-279d	O-147 O-147 O-147 O-147 O-147	Standardized Standardized Standardized Standardized Standardized
9150-21-802-4313	Lubricating oil, gear, aircraft, light grade	For extreme low temperature lubrication of separately lubricated engine reduction gear, helicopter gear boxes, propeller reduction gears, electronic and other gear boxes where oil can be retained and extreme pressure lubrication is required Pour point: -40°C (-40°F)	Canada MIL-L-6086B Grade L US MIL-L-6086B Grade L UK DTD581B Grade OEP 30	O-153 O-153 O-153 O-155	Standardized Standardized Standardized Emergency Substitute
9150-21-802-4301	Lubricating oil, gear, aircraft medium grade	Helicopter gear boxes, reduction gear and power sections, propeller reduction gear, electronic and other gear boxes, and for general use in aircraft gear mechanisms exclusive of engines. Pour point: -30°C (-22°F)	Canada MIL-L-6086B Grade M US MIL-L-6086B Grade M UK DTD-581B Grade OEP 70 Belgium BA-PO-107 France AIR-3525 Italy AM-O-282d Grade M	O-155 O-155 O-155 O-155 O-155 O-155	Standardized Standardized Standardized Standardized Standardized Emergency Substitute
9160-21-802-4081	Insulating oil, electrical	For use in electrical transformers, oil switches, oil circuit breakers where oil is permitted, also as a heat transfer oil in heater compartment of Ref. 4G/1616 oil primer (Durham Model only)	Canada CSA C50-56 UK BS 148 1959 (OM-16) France DCEA-168C	S-756 S-756 S-756	Standardized Standardized Standardized
9150-21-802-4290	Oil, stern tube	A blend of mineral and vegetable oils for use in oil lubricated marine craft stern tubes.	Canada 3-GP-396b Am 2		

Table 9 Lubricating Oils (Cont'd)

RCAF Stock No.	Description	Application	Approved Specifications	NATO Symbol	Status
9150-21-802-4035 Type 1 34A/9150-21-802-4036 Type 2	Oil compressor (refrigerant) Types 1 and 2	A refined petroleum oil suitable for the lubrication of cylinders of refrigerating machines, obtained by LPO.	Canada 3-GP-44B Am 1		
34A/9150-21-802-4314	Oil, Dow Corning Grade DC200	For Bell Helicopter damper Part 17141. DC200 fluids are available in a range of viscosities from 0.65 to 1,000,000 centistokes, unit demands must quote a definite viscosity as listed in the EO or other official publication requiring the use of DC200 fluids.			
9150-21-802-4310	Lubricating oil, exposed gear, medium	A petroleum residue type oil intended for the lubrication and protection of chain, wire ropes, large open gears. Viscous, usually heated before application.	Canada 3-GP-662a Am 1 US VV-L-75 1a type 1, grade C UK DEF-2302 (ZX-7) US MIL-L-13914 Grade 1	O-202 O-203 O-200 O-206	Standardized Acceptable Acceptable Acceptable
9150-21-802-4292	Oil, penetrating	A pure mineral oil, blended with carbon tetrachloride or other suitable material for use in spraying open springs of automotive vehicles and for loosening tight or rusted bolts or nuts, and general loosening of frozen metallic parts.	Canada 3-GP-325 Am 1 US VV-P-216		Acceptable
9150-21-802-2928	Lubricating oil, steam turbine	Steam turbine oil for lubrication of main turbines and gears, auxiliary turbine installations, air compressors sludge pumps, well pumps, garbage disposal units and related CE equipment.	Canada 3-GP-357b US MIL-L-17331B Am 1	O-240 O-250	Acceptable
9150-21-802-4293	Oil, lubricating SAE Grade 10W (Pour point: -38°C (-35°F))	For storage of aircraft and marine fuel tanks, and may be used as a general purpose lubricant for small arms and bicycles.  <u>NOTE</u>  The designation "W" implies winterization. This oil is not heavy duty oil and its mixing with HD oils is not recommended.	Canada 3-GP-45a Am 1		

Table 9 Lubricating Oils (Cont'd)

RCAF Stock No.	Description	Application	Approved Specifications	NATO Symbol	Status
9150-21-802-4307	Lubricating oil, engine: HD Grade 10	A winterized HD oil, for the general crankcase lubrication of RCAF engines other than aircraft.	Canada 3-GP-345a Am 2 MIL-L-2104A Am 1 Grade 10 UK DEF-2101B (OMD40) Am 1 Belgium BT-PO-151 Grade 10 France DCEA/54A (OMD40) Italy E/O-1210 Italy E/O-1110	O-176  O-176  O-176  O-176  O-176  O-176	Standardized  Standardized  Standardized  Standardized  Standardized  Emergency
9150-21-802-4302	Lubricating oil, engine: HD Grade 20	A HD oil for the general crankcase lubrication of RCAF engines other than aircraft.	Canada 3-GP-351a Am 2 France DCEA/54A (OMD60) Italy E/O-1220	O-178 O-178 O-176	Standardized Standardized Acceptable
9150-21-802-6750	Lubricating oil, engine: HD Grade 30	A HD oil for the general crankcase lubrication of RCAF engines other than aircraft.	Canada 3-GP-365a US MIL-L-2104A Grade 30 UK DEF-2101C (OMD110) Belgium BT-PO-151 Grade 30 France DCEA/54A (OMD110) Italy E/O-1230 Italy E/O-1130	O-180  O-180  O-180  O-180  O-180  O-180  O-180	Standardized  Standardized  Standardized  Standardized  Standardized  Standardized  Emergency

Table 9 Lubricating Oils (Cont'd)

RCAF Stock No.	Description	Application	Approved Specifications	NATO Symbol	Status
9150-21-802-4308	Oil, lubricating HD SAE 40 (Pour point: -12°C (10°F) (ME OIL HD SAE 40)	A HD oil for the general crankcase lubrication of RCAF engines other than aircraft.	Canada 3-GP-375a		
9150-21-802-4298	Lubricating oil, engine: HD Grade 50	A HD oil for the general crankcase lubrication of RCAF engines other than aircraft.	Canada 3-CF-395a Am 1 US MIL-L-2104A Am 1 Grade 50 UK DEF-2101B (OMD330) Am 1 Belgium BT-PO-151 Grade 50 France DCEA/54A (OMD330) Italy E/O-1250 Italy E/O-1150	O-182 O-182 O-182 O 182 O-182 O-182	Standardized Standardized Standardized Standardized Standardized Emergency
9150-21-805-2571	Lubricating oil, engine: Type DS, Grade 10	Intended for crankcase lubrication of high output diesel engines, supercharged and unsupercharged	Canada 3-GP-346a Am 1 US MIL-L-45199A Grade 10 France MIL-L-45199A (Ord) Grade 10	O-224 O-224 O-224 O-176	Standardized Standardized Standardized Emergency
9150-21-805-2572	Lubricating oil, engine: Type DS Grade 30	Intended for crankcase lubrication of high output diesel engines, supercharged and unsupercharged.	Canada 3-GP-366a US MIL-L-45199A Grade 30 France MIL-L-45199A (Ord) Grade 30	O-225 O-225 O-225 O-180	Standardized Standardized Standardized Emergency

Table 9 Lubricating Oils (Cont'd)

RCAF Stock No.	Description	Application	Approved Specifications	NATO Symbol	Status
9150-21-802-4320	Oil, lubricating extra HD, SAE 30 (Pour point: -12°C (10°F))	Crankcase lubrication of high speed diesel engines operating under severe conditions conducive to high rate of wear and engine deposits, high load operation low temperature operation and use of high sulphur content fuels.	Canada 3-GP-903a Am 2		
6810-21-802-4381	Lubricant tricresyl phosphate	For lubrication of vacuum pumps (6C/1067) in conjunction with oxygen systems.	Canada TT-T-656A Am 1		
9150-21-802-4324	Oil, lubricating internal combustion engine	Primarily for lubrication of auxiliary power units of C-119 aircraft.	Canada MIL-L-8383B		
9150-21-802-2929	Oil, lubricating cylinder compounded	For use in steam heating plants on all lubricators main feed pumps, hot well pumps, etc.	Canada 3-GP-440 Am 2 US MIL-L-15019B		Acceptable
9150-00-577-4241	Oil, lubricating (scinus 500)	For use in the following compressors: 4G/1578 - Electric driven 4G/1579 - Gas engine driven 4G/2504 - Electric driven 4G/2505 - Gas engine driven	Canada MIL-L-26087		
9150-21-807-0707	Lubricating oil, aircraft piston engine: Grade D-1080, dispersant	Lubricating oil engine aircraft for use as per EO 45-1-2	Canada 3-GP-315 Am 1	O-123 O-113 O-115	Standardized Emergency Substitute Emergency Substitute
9150-21-807-0708	Lubricating oil, aircraft, piston engine: Grade D-1100, dispersant	Lubricating oil engine aircraft for use as per EO 45-1-2	Canada 3-GP-320 Am 2	O-125 O-117 O-128	Standardized Acceptable Emergency

NOTE: UK - No Specification - Shell W/100 Oil available as Proprietary Product.

Table 9 Lubricating Oils (Cont'd)

RCAF Stock No.	Description	Application	Approved Specifications	NATO Symbol	Status
9150-21-807-4015	Lubricating oil internal combustion engine heavy duty (Grade Sub 0°)	For certain MSE equipment operating in extreme low temperature conditions.	Canada 3-GP-343 Am 2		
9150-21-807-3080	Oil, automatic transmission	For use in 2T/2105 air compressor.	Proprietary product (Shell Oil Co.) Mfrs Code 54527		
9150-21-805-2570	Lubricating oil, general purpose, military symbol 2135-T-H	For use on Rootes Blower cabin pressure tester Ref. 4G/4920-00-272-1668	Canada MIL-L-17672 US MIL-L-17672		
9150-21-810-6097	Lubricating oil high performance. High temperature	For lubrication of alternator rear bearing installed on Orenda gas turbine engine	Proprietary product Teresso 41 Tellus 29		
9150-21-806-3377	Lubricating oil high performance. High temperature	For crankcase lubrication on Orenda gas turbine engine	Proprietary product Teresso 52 Tellus 33 Britex R&O 35		

Table 9 Lubricating Oils (Cont'd)



RCAF Stock No.	Description	Application	Approved Specifications	NATO Symbol	Status
9150-21-802-4312	Lubricating oil, gear, extreme pressure, Grade 75	For the extreme cold temperature lubrication of automotive gear units, heavy duty industrial type enclosed gear units, steering columns and fluid lubricated universal joints of automotive equipment. For use where the sustained operating temperature of the lubricant is 121°C (250°F) or lower, and where the ambient temperature is below -17.8°C (0°F). Normally used for all winter operations. For lubrication of expeditor aircraft landing gear motor gear	Canada 3-GP-340a Am 2 UK CS3000A (OEP-38) France DCEA-60B (OEP-38)	O-186 O-186 O-186 O-227	Standardized Standardized Emergency
9150-21-802-4297	Lubricating oil, gear, multi-purpose, Grade 80	For moderate temperature application as above, where the sustained operating temperature is -3.89°C (25°F) or lower. To be used only where specified.	Canada 3-GP-360b Am 1 US MIL-L-2105A	O-227 O-227 O-186	Standardized Emergency
9150-21-802-4294	Lubricating oil, gear, multi-purpose Grade 90	Warm temperature application as above, where the ambient temperature is above -17.8°C (0°F). Normally used for all summer application.	Canada 3-GP-390b Am 2 US MIL-L-2105B France MIL-L-2105B Belgium BT-PO-152	O-226 O-226 O-226 O-226 O-184	Standardized Standardized Standardized Emergency
9150-21-802-4323	Lubricating oil, gear, extreme pressure sub-zero	A petroleum or synthetic product, or combinations thereof, for the lubrication of automotive gear units, heavy duty enclosed gear units, auth memo 1034A-3 (EG/VME1 18 Apr 58) and universal joints of automotive equipment and some ground radar sets operating in temperatures from -17.8°C(0°F) to -54°C(-65°F).	Canada 3-GP-336 Am 1 US MIL-L-10324A UK CS-3108 (OEP-14)	O-188 O-188 O-188	Standardized Standardized
9150-21-805-3669	Lubricating oil gear (SAE 90)	Intended for the lubrication of brute generator propulsion clutch	Canada 3-CP-91		
9150-21-811-8912	Lubricating oil gear multi-purpose (Grade 140)	For warm temperature operation of automotive gear units, steering gears, HD industrial gear units and universal joints	Canada 3-CP-420		



RCAF Stock No.	Description	Application	Approved Specifications	NATO Symbol	Status
9150-21-802-4305	Petrolatum, technical	For hot-dip application to marine and mobile equipment parts. Coating for battery terminals and as a temporary cold preservative and constituent of luting materials.	Canada 3-GP-665a Am 1 US VV-P-236 UK DEF-2333 Grade PX7 Belgium DSM-400B France AIR-3565 Italy AM-G-361C	S-743 S-743 S-743 S-743 S-743 S-743	Standardized Standardized Standardized Standardized Standardized Standardized
6850-21-802-2926	Oil anti-corrosive aircraft engine internal	A blend of: one part anti-corrosive oil to Specification MIL-C-6529C Type 1 and 3 parts lubricating oil, aircraft reciprocating engine to Specification MIL-L-6082C	US MIL-C-6529C Type 2		
8030-21-802-4076	Oil, finger print remover	A corrosion preventive compound for removal of fresh fingerprint residues, suppression of fingerprint corrosion and as a temporary corrosion preventive for steel.	Canada 31-GP-9 US MIL-C-15074A		

Table 11 Preservatives

RCAF Stock No.	Description	Application	Approved Specifications	NATO Symbol	Status
9150-21-802-4082	Lubricating oil, engine: preservative Grade 10	A preservative engine oil having the ability to neutralize the acidic product of combustion in an engine. Used for protection of stored, marine and mobile equipment, marine or diesel type.	Canada 3-GP-347a Am 2 MIL-L-21260 Grade 1 Belgium BT-PC-552 Grade 10	C-640 C-640 C-640	Standardized Standardized
9150-21-802-2924	Lubricating oil, engine: preservative Grade 30	A preservative engine oil having the ability to neutralize the acidic products of combustion in an engine. Used for protection of stored marine and mobile equipment, marine or diesel type.	Canada 3-GP-367a MIL-L-21260 Grade 2 Belgium BT-PC-552 Grade 30 France DCEA/180	C-642 C-642 C-642 C-642	Standardized Standardized Standardized
9150-21-800-4803	Lubricating oil, general purpose, preservative light	For inhibiting small arms in storage also used on rocket pods on CF100 aircraft, refer EO 05-25F-2	Canada MIL-L-644B US MIL-L-644B Canada 3-GP-335a US MIL-L-7870A Italy AM-O-278C Canada 3-GP-38a France AIR 3515 Italy AM-O-277C UK DEF-2001A	O-190 O-142 O-142 O-142 O-134 O-134 O-134 O-134	Standardized Acceptable Acceptable Acceptable Emergency Emergency Emergency Emergency
8030-21-107-4338	Preservative compound, strippable	A plastic cellulose acetate butyrate hot dip applied as strippable protective coating for highly polished tools, wrenches, drills, etc.	Canada 43-GP-6 Type 2 US JAN-C-149 Type 2		Acceptable

Table 11 Preservatives (Cont'd)

RCAF Stock No.	Description	Application	Approved Specifications	NATO Symbol	Status
8030-21-800-7967	Corrosion preventing compound, soft film, cold application	An easily removable soft film corrosion preventive compound for internal storage of precision machine parts and bearings. Cold, brush spray or dip application.	Canada US France UK Belgium Italy 31-CP-3 MIL-C-16173B Am 1 Grade 2 AIR-8132 DEF-2331 DSM-312A AM-I-391C	C-620 C-620 C-620 C-614 C-614 C-614	Standardized Standardized Standardized Acceptable Acceptable Acceptable
8030-21-800-7968	Corrosion preventive compound, hard film, hot application	For long term storage of exterior surfaces. Brush, swab or dip application.	Canada US 31-CP-5 MIL-C-11796B Grade 1	C-633 C-633	Standardized Standardized
8030-00-244-1296	Rust preventive dewatering type	For storage of surfaces normally in contact with water or steam. Brush spray or dip application.	Canada US UK 31-CP-4 MIL-C-16173B Grade 3 CS-2060C		Acceptable Acceptable
8030-00-265-9412 (1 gal. tin)	Corrosion preventive compound, hydraulic systems	For use as a storage preservative compound in hydraulic components of systems with synthetic rubber seals.	Canada US UK Italy France MIL-H-6083B Type 1 MIL-H-6083B Type 1 DTD-5540 AM-I-389b AIR-1506	C-635 C-635 C-635 C-635 C-635	Standardized Standardized Standardized Standardized Standardized
8030-00-265-9413 (1 qt. tin)	Corrosion preventive compound, hydraulic systems	Intended for use in regulators on Aero Products propellers installed in C119C aircraft and Hamilton Standard Integral Oil Controls installed on Hercules and Albatross aircraft.	Canada US UK Italy France MIL-H-6083B Type 1 MIL-H-6083B Type 1 DTD-5540 AM-I-389b AIR-1506	C-635 C-635 C-635 C-635 C-635	Standardized Standardized Standardized Standardized Standardized

Table 11 Preservatives (Cont'd)

RCAF Stock No.	Description	Application	Approved Specifications	NATO Symbol	Status
6850-21-806-1544	Corrosion preventive oil, aircraft engine, turbine, synthetic	For preservation of turbo prop and turbo jet engines using oils to Specification 3-GP-904	Canada MIL-C-8188C US MIL-C-8188C Italy AM-1-387B	C-638 C-638 C-638	Standardized Standardized Standardized
6850-21-806-0026	Corrosion preventive oil, aircraft engine, concentrate	For preservation against corrosion of reciprocating engines and equipment	Canada MIL-C-6529C type 1, Arm 2 US MIL-C-6529C type 1, Arm 2 Italy AM-1-386C	C-608 C-608 C-608	Standardized Standardized Standardized
6850-21-806-5093	Oil corrosion preventive	For preservation of T58-GE-8B engine (Vertol 107). For spray application on wet or dry surfaces.	Proprietary product "Rustlick 606"		
9150-21-807-4363	Lubricating oil general purpose preservative, medium	For use on flap hinge lobes of CF104 and 104D aircraft.	Canada MIL-L-3150 US MIL-L-3150 Belgium QOG-468 France DCEA/111A	O-192 O-192 O-192 C-642 O-194	Standardized Standardized Acceptable Emergency

Table 11. Preservatives (Cont'd)

RCAF Stock No.	Description	Application	Approved Specifications	NATO Symbol	Status
6810-21-802-2313	Methanol, technical	<p>Used as a thrust augmentation fluid when diluted with water for injection into reciprocating and jet aircraft engines.</p> <div style="border: 1px solid black; padding: 2px; text-align: center; width: fit-content; margin: 10px auto;">WARNING</div> <p>This material is a deadly poison if taken internally. Internal consumption will cause death. There is no antidote. It cannot be rendered non-poisonous. It is never to be used in unventilated spaces. Repeated inhalation of vapours has the same effect as consumption by mouth. Treatment consists of repeated drinking of warm water with induced vomiting. Methyl alcohol is not to be used in any system containing magnesium components or applied to any surface where the methyl alcohol could come in contact with magnesium parts on the aircraft.</p>	Canada 3-GP-531 US O-M-232d Grade A UK DEngRD2491 Issue 1 Belgium DSM-357B France AIR-3650 Italy AM-L-430d	S-747 S-747  S-747 S-747 S-747	Standardized Standardized  Standardized Standardized Standardized
6810-21-802-4037	Thrust augmentation fluid	<p>For use in R3350 Turbo compound engines only. Consists of: A mixture of 60 parts by volume of methyl alcohol (O-M-232 Grade "A" NATO Symbol S-747) 40 parts by volume of demineralized water, and up to one part of water soluble corrosion inhibitor. For use in R3350 engines.</p> <p style="text-align: center;"><u>NOTE</u></p> <p>The limits for waterhardness in water injection fluids for piston engines is a maximum of 50 parts per million. For local blending, it may be necessary in some localities to distill or otherwise demineralize the water to reduce the mineral content to a permissible level, to avoid build-up of boiler scale in engines using this fluid.</p>			

Table 12 Thrust Augmentation Fluids





RCAF Stock No.	Description	Application	Approved Specifications	NATO Symbol	Status
6850-21-570-1570	Dry cleaning solvent	A dry cleaning type solvent for cleaning metal parts and for general purposes. Also for use in hydraulic jacks for low temperature operation, see EO 65A-50-5A/1.	Canada 3-GP-8a Am 2 US P-S-661B type 1 UK BS-245: 1956 Am 1 Belgium QOG-476 France DCEA/202A US P-S-661B type II	S-752 S-752 S-752 S-752 S-752 S-753	Standardized Standardized Standardized Standardized Acceptable



RCAF Stock No.	Description	Application	Approved Specifications	NATO Symbol	Status
6850-21-806-5109	Calibrating fluid	For testing and calibrating aircraft fuel system components.	Canada MIL-F-7024 Type II US MIL-F-7024 Type II		
6850-00-754-2670	Ramjet test and calibrating fluid	For test and calibration of surface to air missile fuel system components.	Canada MIL-F-27351 US MIL-F-27351		

Table 14 Calibrating Fluid

