3-GP-47
31 December 1947
CANCELLATION
12 November 1965

CANADIAN GOVERNMENT SPECIFICATIONS BOARD

Specification
for

HYDRAULIC FLUID, PETROLEUM: Inhibited

CGSB Specification 3-GP-47, dated 31 December 1947, including Amendment No. 1, dated 31 December 1963, is cancelled as of 12 November 1965.

ARCHIVES COPY

3-GP-47
31 December 1947
AMENDMENT NO. 1
31 December 1963

CANADIAN GOVERNMENT SPECIFICATIONS BOARD

Specification
for

OIL; HYDRAULIC

TITLE* - Change to read:

HYDRAULIC FLUID, PETROLEUM: Inhibited

Withdrawn/Retirée

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* This revised title is in accordance with NATO Codified Nomenclature.

3-GP-47
31 December 1947*

CANADIAN GOVERNMENT SPECIFICATIONS BOARD

Specification
for

OIL; HYDRAULIC**

Withdrawn/Retirée

1. DEFINITION

1.1 This oil shall be a pure highly-refined mineral oil with which may be compounded approved additive materials to improve the viscosity temperature characteristics. The term "oil" as used in this specification shall mean the compound of oil and additive.

2. GENERAL REQUIREMENTS

2.1 The oil shall be of light color, clear, and free from water, dirt, and suspended impurities.

3. DETAIL REQUIREMENTS

3.1 Physical and Chemical Requirements

	Min.	Max.	Test Method
Flash Point, °F.	300	-	27.1
Viscosity at 100°F			
Kinematic, Centistokes	-	35.5	36.1
Approx. S.U. Seconds	-	165	36.2
Viscosity at 210°F.			
Kinematic, Centistokes	6.4	-	36.1
Approx. S.U. Seconds	47	-	36.2
Pour Point, °F.	-	-40	28.2
Total Acid No.	-	0.05	2.1 or 2.2
Corrosion (Section 3.1.1)	-	Negligible	60.2
Water	-	None	10.1
Carbon Residue, Per cent	-	0.20	41.2

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* Reprinted 12 January 1953 with no change in technical requirements.

** For other grades of Hydraulic Oil see specification Nos. 3-GP-26 and 3-GP-38.

PRICE 10 cents

3.1.1
The discoloration of the copper strip shall not be greater than that caused by the oxidation of the strip when exposed to the dry heat of the oven at 212°F. for three hours.

4. USES

4.1 This oil is intended for use in hydraulic mechanisms, including hydraulic variable speed gears, control mechanisms and miscellaneous hydraulic and instrument applications, such as hydraulic units in machine tools.

4.2 This oil is not intended for use as a hydraulic oil or fluid in aircraft.

5. METHODS OF SAMPLING AND TESTING

5.1 A sample of not less than one Imperial gallon shall be provided for tests and shall be obtained in accordance with section 1.2 of Schedule No. 3-GP-0: Methods of Testing Petroleum and Associated Products.

5.2 The methods of testing shall in all cases be those described in Schedule No. 3-GP-0, using the procedure specified for each requirement.

Withdrawn/Retirée

No. 3-GP-47-1947
Issued 31 December, 1947
Supersedes Issue 15 November, 1946.

CANADIAN GOVERNMENT PURCHASING STANDARDS COMMITTEE

Specification for OIL - HYDRAULIC.*

A. DEFINITION

A-1 This oil shall be a pure highly-refined mineral oil with which may be compounded approved additive materials to improve the viscosity temperature characteristics. The term "oil" as used in this specification shall mean the compound of oil and additive.

B. GENERAL REQUIREMENTS

B-1 The oil shall be of light colour, clear, and free from water, dirt, and suspended impurities.

C. DETAILED REQUIREMENTS

C-1 Physical and Chemical Requirements

	Min.	Max.	Test Method
Flash Point, °F.	300	-	27.1
Viscosity at 100°F.			
Kinematic, Centistokes	-	35.5	36.1
Approx. S.U. Seconds	-	165	36.2
Viscosity at 210°F.			
Kinematic, Centistokes	6.4	-	36.1
Approx. S.U. Seconds	47	-	36.2
Pour Point, °F.	-	-40	28.2
Total Acid No.	-	0.05	2.1 or 2.2
Corrosion (Para. C-1a)	-	Negligible	60.2
Water	-	None	10.1
Carbon Residue, Per cent	-	0.20	41.2

C-1a The discoloration of the copper strip shall not be greater than that caused by the oxidation of the strip when exposed to the dry heat of the oven at 212°F. for three hours.

* For other grades of Hydraulic Oil see Specification Nos. 3-GP-26 and 3-GP-38.

Withdrawn/Retired

No. 3-GP-47

D. USES

D-1 This oil is intended for use in hydraulic mechanisms, including hydraulic variable speed gears, control mechanisms and miscellaneous hydraulic and instrument applications, such as hydraulic units in machine tools.

D-2 This oil is not intended for use as a hydraulic oil or fluid in aircraft.

E. METHODS OF SAMPLING AND TESTING

E-1 A sample of not less than one Imperial gallon shall be provided for tests and shall be obtained in accordance with section 1.2 of Schedule No. 3-GP-0: Methods of Testing Petroleum and Associated Products.

E-2 The methods of testing shall in all cases be those described in Schedule No. 3-GP-0, using the procedure specified for each requirement.

Withdrawn/Retirée

Correspondence regarding this specification should be addressed to the Secretary, Canadian Government Purchasing Standards Committee, National Research Council, OTTAWA, Canada.

REFERENCE COPY

No. 3-GP-47
Issued 15 November, 1946.

CANADIAN GOVERNMENT PURCHASING STANDARDS COMMITTEE

Specification for Oil, Hydraulic

A. GRADE

A-1. This oil should be of one grade.

B. GENERAL REQUIREMENTS

B-1. This oil shall be a pure highly-refined mineral oil with which may be compounded approved additive materials to improve the viscosity temperature characteristics. The term "oil" as used in this specification shall mean the compound of oil and additive.

B-2. The oil shall be of light colour, clear, and free from water, dirt, and suspended impurities.

C. DETAILED REQUIREMENTS

C-1. Physical and Chemical Requirements

	Min.	Max.	Test Method
Flash Point, °F	300	-	D92
Viscosity.			
Kinematic, centistokes			
at 100°F.	-	35.5	D445
at 210°F.	6.4	-	D445
Approx. S.U. Seconds			
at 100°F.	-	165	D88
at 210°F.	47	-	D88
Pour Point, °F.	-	-40	D97
Neutralization No.	-	0.05	D663
Corrosion	-	negligible	See Para D-1a
Water	-	none	D95
Carbon Residue, Per cent	-	0.20	D524

D. INSPECTION AND TESTS

D-1a. Corrosion Test

The A.S.T.M. test D130-30 shall be modified to the extent that the oil sample is held for 3 hours at 212°F. (100°C.). The discoloration of the copper strip shall not be greater than that caused by the oxidation of the strip when exposed to the dry heat of the oven at 212°F. for three hours.

Withdrawn/Retirée

D-2. Service Performance

In addition to meeting the above General and Detailed Requirements, the product must prove satisfactory in service.

E. USES

E-1. This oil is intended for use in hydraulic mechanisms, including hydraulic variable speed gears, control mechanisms and miscellaneous hydraulic and instrument applications, such as hydraulic units in machine tools.

E-2. This oil is not intended for use as a hydraulic oil or fluid in aircraft.

Withdrawn/Retirée

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No. 3-GP-47-1947
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Supersedes Issue 15 November, 1946.

CANADIAN GOVERNMENT PURCHASING STANDARDS COMMITTEE

Specification for OIL - HYDRAULIC.*

A. DEFINITION

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B. GENERAL REQUIREMENTS

B-1 The oil shall be of light colour, clear, and free from water, dirt, and suspended impurities.

C. DETAILED REQUIREMENTS

C-1 Physical and Chemical Requirements

	Min.	Max.	Test Method
Flash Point, °F.	300	-	27.1
Viscosity at 100°F.			
Kinematic, Centistokes	-	35.5	36.1
Approx. S.U. Seconds	-	165	36.2
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* For other grades of Hydraulic Oil see Specification Nos. 3-GP-26 and 3-GP-38.

Withdrawn/Retiree

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D-1 This oil is intended for use in hydraulic mechanisms, including hydraulic variable speed gears, control mechanisms and miscellaneous hydraulic and instrument applications, such as hydraulic units in machine tools.

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E. METHODS OF SAMPLING AND TESTING

E-1 A sample of not less than one Imperial gallon shall be provided for tests and shall be obtained in accordance with section 1.2 of Schedule No. 3-GP-0: Methods of Testing Petroleum and Associated Products.

E-2 The methods of testing shall in all cases be those described in Schedule No. 3-GP-0, using the procedure specified for each requirement.

Withdrawn/Retirée

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