

METRIC

MIL-L-46167B
AMENDMENT 1
12 June 1989

MILITARY SPECIFICATION
LUBRICATING OIL, INTERNAL COMBUSTION ENGINE, ARCTIC

This amendment forms a part of MIL-L-46167B, dated 29 July 1988, and is approved for use by all Departments and Agencies of the Department of Defense.

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2.2, under AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM), D 2896, delete the word "Total" from the title and add:

- "D 4624 - Measuring Apparent Viscosity by Capillary Viscometer at High Temperature and High-Shear Rates.
- "D 4683 - Measuring Viscosity at High Temperature and High Shear rate by Tapered Bearing Simulator.
- "D 4741 - Measuring Viscosity at High Temperature and High Shear Rate by Tapered-Plug Viscometer.
- "D 4927 - Elemental Analysis of Lubricant and Additive Components - Barium, Calcium, Phosphorus, Sulfur, and Zinc by Wavelength Spectroscopy."

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Table II, add the following:

"Evaporation loss	X
.High temperature/high shear	X"

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4.5.2, add the following to the list:

"Evaporation loss
High temperature/high shear"

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Table III, under "test method", add a column "DIN" and add the following:

	ASTM	DIN
"Evaporation loss <u>10</u> / High temperature/high shear	D 3887 D 4683, D 4624, D 4741	51581
Metallic components	D 4927"	

AMSC N/A

FSC 9150

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Add the following footnote:

"10/ The DIN 51581 is the preferred method."

Custodians:

Army - ME
Navy - SH
Air Force - 68

Preparing activity:

Army - ME

Project 9150-1046

Review activities:

Army - AR, SM
Navy - AS, MC, SA, YD
Air Force - 11
DLA - GS

User activities:

Army - AT, MI
Navy - OS