

MIL-L-22851C  
 AMENDMENT 2  
 23 July 1979  
 SUPERSEDING  
 AMENMENT 1  
 27 April 1979

MILITARY SPECIFICATION

LUBRICATING OIL, AIRCRAFT PISTON ENGINE  
 (ASHLESS DISPERSANT)

This amendment forms a part of Military Specification MIL-L-22851C, dated 2 January 1979, and is approved for use by all Departments and Agencies of the Department of Defense.

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3.3.1, Table I, Delete and substitute:

" TABLE I

PROPERTIES		
Properties	Type II blend	Type III blend
Gravity, °API	1/	1/
Ash, max., percent	0.0025	0.0025
Carbon residue, max., percent <u>2/</u>	1.2	0.75
Pour point, max.	-18°C (0°F)	-24°C (-10°F)
Flash point, min.	244°C (470°F)	216°C (420°F)
Sulfur, max., percent <u>3/</u>	1.2	1.2
Trace sediment, max., ml./100 ml. oil	0.005	0.005
Copper strip corrosion		
3 hrs. at 100°C ± 1°C (212°F ± 2°F), max.	1	1
3 hrs. at 204°C ± 1°C (400°F ± 2°F), max.	3	3

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TABLE I (cont'd)

Properties	Type II blend	Type III blend
Viscosity at 98.9°C (210°F)		
Saybolt universal seconds, SUS	93 - 125	62 - 84
Kinematic viscosity, cs	18.7 - 26.1	10.8 - 16.5
Viscosity index, min.	95	100
Trace metal content, ppm, max. <u>4</u> /		
Iron (Fe)		5
Silver (Ag)		2
Aluminum (Al)		7
Chromium (Cr)		5
Copper (Cu)		3
Magnesium (Mg)		3
Nickel (Ni)		3
Lead (Pb)		5
Silicon (Si)		10
Tin (Sn)		10
Titanium (Ti)		2
Molybdenum (Mo)		4"

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## 4.6.3 Delete and substitute:

"4.6.3 Trace metal content. The trace metal content of the oil shall be determined with an atomic emission (A/E 35U-3) spectrometer. Using Joint Oil Analysis Program spectrometric calibration standards, the spectrometer shall be standardized in accordance with paragraphs 4-32, 4-33, 4-46, and 4-47 of Technical Manual NAVAIR 17-15-BF-62. Immediately after standardizing the spectrometer, five (5) determinations of the oil for trace metal content shall be performed. The average of the five determinations shall be reported. Samples requiring trace metal content determinations may be sent to:

Oil Analysis Laboratory  
Metrology Engineering Division  
Naval Air Rework Facility (Code-433)  
Naval Air Station  
Pensacola, Florida 32508"

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The margins of this amendment are marked with an asterisk to indicate where changes (additions, modifications, corrections, deletions) from the previous amendment were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire document irrespective of the marginal notations and relationship to the last previous amendment.

Custodians:

Army - MR  
Navy - AS  
Air Force - 11

Preparing activity:

Navy - AS  
(Project No. 9150-0573)

Review Activities:

Army - AV, ME  
Air Force - 68  
DLA - PS

User Activity:

Navy - MC

