The Engineering Society For Advancing Mobility Land Sea Air and Space®

A Product of the Cooperative Engineering Program

SAE J1260 APR89

Standard Oil Filter Test Oil

SAE Standard
Revised April 1989

Submitted for Recognition as an American National Standard

SAE The Engineering Society For Advancing Mobility Land Sea Air and Space®
400 COMMONWEALTH DRIVE, WARRENDALE, PA 15096

HIGHWAY VEHICLE STANDARD

Submitted for recognition as an American National Standard

SAE J1260

Issued June 1983
Revised April 24; 1989

Superseding J1260 JUN83

STANDARD OIL FILTER TEST OIL

1. SCOPE:
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This SAE Standard defines the requirements for an oil to be used in the SAE HS J806 JUN83, Oil Filter Test Procedures.

2. PROPERTY REQUIREMENTS:

The filter test oil shall be formulated from solvent refined petroleum stocks and blended with additives required to meet the specifications shown in Table 1. It shall not contain any viscosity index improver.

The filter test oil shall also meet engine oil performance and engine service classification SE/CC as outlined in SAE J183 MAR88.

3. PERFORMANCE CHARACTERISTICS APPROVAL:

The following oil performance characteristics must be approved by a panel of test oil users selected by the SAE Filter Test Methods Standards Committee:

3.1 0.8 µm Membrane Filterability: A panel judgment of slow filtration rates, relatable to additive removal or contamination, would constitute grounds for rejection.

3.2 SAE HS J806 Filterability: A panel judgment of filter performance, which deviates measurably from previously qualified batches of oil, would constitute grounds for rejection.

3.3 Odor: A panel judgment of objectionable odor, generated during any portion of SAE HS J806, would consitute grounds for rejection.

4. SOURCE INFORMATION:

Approved (February 1980) Filter Test Oil, RM 99, is available by contacting SAE Inc., 400 Commonwealth Drive, Warrendale, PA 15096. This oil has generally been called RFO-3-79 in the past.

TABLE 1 - Oil Filter Test Oil Specifications

Property	Specification Limit	Test Designation
Viscosity	114-127 cSt (mm^2/s) at 100°F (37.8°C) 100-112 cSt (mm^2/s) at 40°C	ASTM D 445
	11.6-12.5 cSt (mm^2/s) at 210°F (98.89°C) 11.2-12.2 cSt (mm^2/s) at 100°C	ASTM D 445
Specific Gravity	0.888-0.876 at 60/60°F (15.5/15.5°C) 0.889-0.877 at 15/15°C	ASTM D 1298
Color	5.5 Max	ASTM D 1500
Viscosity Index	95 Min	ASTM D 2270
Flash Point	410°F (210°C) Min	ASTM D 92
Pour Point	0°F (-17.8°C) Max	ASTM D 97
Trace Sediment (including water)	0.05%, Volume, Max	ASTM D 2273
Foaming Tendency (after 5 min blowing)	Seq. I 10 mL Seq. II 50 mL Seq. III 10 mL	ASTM D 892
Foaming Stability (after 10 min setting)	Seq. I 0 mL Seq. II 0 mL Seq. III 0 mL	ASTM D 892
Additive Composition		
Sulfated Ash Wt., %	0.90-1.10	ASTM D 874
Calcium Wt., %	0.220-0.260	Atomic Absorption
Zinc Wt., %	0.110-0.130	Atomic Absorption
Phosphorus Wt., %	0.090-0.110	Atomic Absorption

The phi (Ø) symbol is for the convenience of the user in locating areas where technical revisions have been made to the previous issue of the report. If the symbol is next to the report title, it indicates a complete revision of the report.

RATIONALE:

Not applicable.

RELATIONSHIP OF SAE STANDARD TO ISO STANDARD:

Not applicable.

REFERENCE SECTION:

SAE J183 MAR88, Engine Oil Performance and Engine Service Classification (Other Than "Energy-Conserving")

SAE HS J806 JUN83, Oil Filter Test Procedure

APPLICATION:

This SAE Standard defines the requirements for an oil to be used in the SAE HS J806 JUN83, Oil Filter Test Procedures.

COMMITTEE COMPOSITION:

DEVELOPED BY THE SAE FILTER TEST METHODS STANDARDS COMMITTEE:

A. D. Martin, Facet/Purolator, Fayetteville, NC - Chairman
B. Toth, Ford Motor Company, Dearborn, MI - Secretary
W. E. Allen, Deere & Co., Waterloo, IA
J. M. Asche, Baldwin Filters, Kearney, NE
R. W. Bensman, Champion Spark Plug Co., Toledo, OH
K. M. Brenske, GMC, Flint, MI
A. J. Caronia, Fram Bendix Autolite, East Providence, RI
R. M. Culbert, Farr Company, Los Angeles, CA
J. G. Eleftherakis, FRPC/OSU, Stillwater, OK
G. Estrada, Southwest Research Institute, San Antonio, TX
H. Failmezger, John Deere Dubuque Works, Dubuque, IA
J. C. Fitch, Diagnetics Inc., Tulsa, OK
T. A. Francis, Richfield, MN
J. N. Gehrking, Donaldson Co. Inc., Minneapolis, MN
R. L. Hall, Champion Laboratories Inc., West Salem, IL
H. W. Helmer, Chrysler Engineering, Highland Park, MI
D. H. Hodgkins, Stanadyne Inc., Hartford, CT
U. E. Holzhausen, Cummins Engine Co., Cookeville, TN
L. M. Hough, Dana Corp., Gastonia, NC
R. A. Jaisinghani, American Filtrona Corp., Richmond, VA
E. M. Lara, Industrias Larabe Ltd., Colombia
A. MacLean III, Facet Enterprises Inc., Tulsa, OK
C. W. Michael, Penn-Anderson Equipment Co., Oakmont, PA
P. Moehring, Chrysler Corp., Detroit, MI
R. Molina, Mexico
L. F. Niebergall, Racine, WI
C. W. Novak, A Tenneco Co., Chicago, IL
G. H. Parberry, Farr Company, El Segundo, CA
P. Y. Pathak, American Filtrona Corp., Santa Fe Spring, CA
T. M. Peters, Hastings Mfg. Co., Hastings, MI
R. R. Puckett, Dana Corp., Gastonia, NC