

Oil, Engine—SAE 10W-30 SH/CG-4**1. SCOPE**

1.1 This material specification defines the minimum acceptable performance requirements and physical/chemical properties of engine oil to be used by New Holland, Inc.

1.2 This specification may involve hazardous materials, procedures and apparatus. This specification does not address the health and safety problems associated with its application or use. It is the specification user's responsibility to follow appropriate health or safety practices and determine the application or regulatory limitation before use.

2. APPLICATION

These specifications were released originally for factory and service fill engine oils used for lubrication of naturally aspirated and turbo-charged compression ignition engines using diesel fuel, and for spark ignition engines using gasoline fuel.

3. DESIGNATION

The Engineering drawing shall contain the notation for specification of subject material as described in standard 86511126 (FNHA-3-B-100.00). The notation information shall be taken from Table 3 and entered on the Engineering drawing.

4. RELATED STANDARDS

86511126 (FNHA-3-B-100.00)—Referencing Standard Numbers on Drawings

ASTM D93—Test Method for Flash Point by Pensky-Martens Closed Tester
 ASTM D130—Method for Detection of Copper Corrosion from Petroleum Products by the Copper Strip Tarnish Test
 ASTM D445—Test Method for Kinematic Viscosity of Transparent and Opaque Liquids (and the Calculation of Dynamic Viscosity)
 ASTM D664—Test Method for Neutralization Number by Potentiometric Titration
 ASTM D874—Test Method for Sulfated Ash from Lubricating Oils and Additives
 ASTM D 892—Test Method for Foaming Characteristics of Lubricating Oils
 ASTM D2270—Practice for Calculating Viscosity Index from Kinematic Viscosity at 40 and 100°C
 ASTM D2887—Test Method for Boiling Range Distribution of Petroleum Fractions by Gas Chromatography
 ASTM D2896—Test Method for Total base Number of Petroleum Products by Potentiometric Perchloric Acid Titration.
 ASTM D4485—Specification for Performance of Engine Oils
 ASTM D4683—Test Method for Measuring Viscosity at High Temperature and High Shear Rate by Tapered Bearing Simulator
 SAE J183—Engine Oil Performance and Engine Service Classification
 FTM 791B—Method 3470
 FLTM BJ-127-01—Scanning Brookfield Viscometer Test for Low Temperature Engine Oil Pumpability
 FLTM BJ-124-01—Engine Oil Filterability Test
 SAE J300—Engine Oil Viscosity Classification

					NAME	STD OIL 10W30 SH/CG-4	
					 NEW HOLLAND	ENGINEERING SPECIFICATION	
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Table 1

Physical Chemical Properties			
Description	Requirements	Units	Methods
Viscosity			
At 40° C	74	cST	ASTM D 445
100° C	11.2	cST	ASTM D 445
Viscosity Index	142	Mpa.s	ASTM D 2270
Viscosity Cold - Crank Sim -20° C	3150	cp	ASTM D 5293
Viscosity Cold - Crank Sim -25° C	6300	cp	ASTM D 5293
Scan Brookfield 40,000 CP	-30°	C	FLTM BJ27-1
Volatility, max			
1 hr. at 250 ° C	20	%	DIN 51581
Dist. at 371° C	20	%	ASTM D 2887
Flash Point, min	208	C	ASTM D 93
Pour Point	-42	C	
Copper Corrosion, 3 hrs at 100° max.	1 b		ASTM D 130
Filterability	50	%	FLTM BJ 124-01
Foaming, max			
Sequence I	10/0	ml	ASTM D 892A
Sequence II	50/0	ml	ASTM D 892B
Sequence III	10/0	ml	ASTM D 892C
Sulphated Ash	.95	wt %	D-874
Zinc	.125	wt %	
Gravity, API	29.9		
Phosphorus	.119	wt %	
TBN (KOH/g)	9.0	mg	ASTM D 2896
TBN (KOH/g)	7.0	mg	ASTM D 664
TAN (KOH/g)	3.0	mg	ASTM D 664



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