

**A mineral oil.**

A lubricant specially designed for heavy-duty diesel engines: turbocharged or naturally-aspirated agricultural machinery, construction machinery, lorries, coaches, stationary engines, generators, marine engines and particularly for low exhaust emissions engines, meeting the EURO II (Tier 2) standard.

Enables an oil change interval of more than 150 operating hours under extreme conditions, in terms of both job toughness and high working temperatures.

It is suitable for any diesel engine operating under tough conditions, whatever the time of year. Also suitable for petrol engines. Not suitable for engines fitted with particulate filters.

**PERFORMANCES**

**Standards:**

ACEA E2  
 API CF-4 / CF  
 API CE, CD/SF - CCMC D-4

**Specifications:**

Ford New Holland NH 330G  
 MERCEDES MB p.227.1  
 MIL-L 2104E

**ORGANISATIONS & MANUFACTURERS - Scope of application -**

**ACEA E2:** Engine lubricant category guaranteeing a certain level of performance concerning the piston cleanliness, polishing, wear, soot dispersion and lubricant stability. This type of oil is recommended for diesel engines meeting the Euro1 and Euro2 standards. Can also be used for widely spaced oil change intervals (according to the manufacturer's recommendations).

**API CF-4:** Diesel, since 1994 (not recommended in the USA for light-duty vehicles).

**API CD:** For diesel engines under high loads, at high speeds and subject to high mean effective pressures generated by turbocompression. CD oils have high detergent and dispersant properties, and provide engines with sufficient protection against wear and corrosion.

**API CE:** A 1987 standard for naturally aspirated or turbocharged high-efficiency engines, can replace CD or CC. Characteristic service for supercharged high-power diesel engines subject to tough conditions running under high loads and at speeds ranging from low to high. Oils intended for this service can also be used if an API CC or CD (obsolete) oil is recommended.

**API SF:** For petrol engines.

**MERCEDES MB 227.1:** A multigrade lubricant for diesel non-supercharged engines (Series 600).

Technical data sheet



**MIL-L 2104E:** a US Army standard, with no petrol/diesel distinction, in force until 1992. Equivalent to API CD-II/SF.

**NH-330G:** A multigrade engine oil satisfying New Holland specifications NH-330G, SAE 15W-40 and compliant with the requirements of the specifications Ford M2C-906A and API CF-4 and API SG.

Characteristics	Methods	Units	Values
Viscosity grade	SAE J 300	-	15W-40
Colour	Visual	-	brown
Density at 15°C	NF T 60-101	kg/m <sup>3</sup>	888
Kinematic viscosity at 100°C	NF T 60-100	mm <sup>2</sup> /s	111.0
Kinematic viscosity at 100°C	NF T 60-100	mm <sup>2</sup> /s	14.55
Viscosity index	NF T 60-136	-	134
Viscosity at -20°C	ASTM D 2602	mPa.s	6200
Pour point	NF T 60-105	°C	-27
COC flash point	NF T 60-118	°C	238
TBN (alkaline reserve)	ASTM D 2896	mg KOH/g	9.0
Sulfated ash	NF T 60143	% mass	1.3 max.

*The characteristics are given purely for information and are consistent with our current production standards. IGOL reserves the right to modify them, in order to pass on technical developments to its customers. Before using this product, you should consult the instructions for use and the environmental impact shown on the technical and safety data sheets. The information given above is based on the current state of our knowledge of the product in question. The product user should take all relevant precautions relating to its use. Under no circumstances may IGOL be held liable for damages resulting from misuse.*

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