

Infineum D3451

Description

Infineum D3451 is a performance additive package for formulating premium quality diesel engine oils. Used at the recommended treat rate in combination with approved base stocks and viscosity modifier, Infineum D3451 provides engine oils meeting the API performance category CI-4, among others. It has been developed to meet the most important North American, European OEM and Industry specifications. Lubricants formulated with Infineum D3451 can also be used in gasoline engines requiring API SL category products. Claims are base stock and viscosity grade specific – for more information; contact your local Infineum Representative.

Performance

Performance Level:	SAE Viscosity Grade:	Mass %:
API SL/CI-4/CH-4	15W-40	11.9
ACEA E7-08		

~ 11.0 Volume %.

Typical Inspections

Property:	Value ^(a) :	Unit:	Method ^(b) :
Appearance	Clear		ITM 50-022
Base Number	77	mg KOH/g	ASTM D2896
Calcium	0.89	%(m)	ASTM D5185
Density @ 15 C, kg/m ³	960	kg/m ³	ASTM D4052
Density @ 60 F, lb/gal	7.99	lb/USG	ASTM D4052
Flash Point Deg C	182	°C	ASTM D93
Kinematic Viscosity @ 100 C	146	cSt	ASTM D445
Kinematic Viscosity @ 40 C	2985	cSt	ASTM D445
Magnesium	0.84	%(m)	ASTM D5185
Nitrogen	0.70	%(m)	ASTM D5291
Phosphorus	1.08	%(m)	ASTM D5185
Sulfated Ash	8.6	%(m)	ASTM D874
Sulfur	2.65	%(m)	ASTM D4294
Zinc	1.18	%(m)	ASTM D5185

(a)Not a specification, (b)Methods typically used by Infineum manufacturing plants

Handling / Precautions

Follow precautions normally taken for handling lube oil stocks. This product is temperature sensitive. Do not heat over the maximum loading / unloading temperature to avoid possible release of extremely odorous alkyl mercaptans and/or toxic hydrogen sulfide.

Localized high temperatures should be avoided during heating, especially when product cannot be agitated. Electrical, steam or hot oil heating systems with a self limiting maximum temperature not exceeding 120 Deg. C/250 Deg. F (e.g. low pressure steam at 2 bar(g) or 30 psig) are recommended.

Min Load/Unload Temp:	55 °C (131 °F)
Max Load/Unload Temp:	65 °C (149 °F)
Vis @ Min Load/Unload Temp:	1,150 cSt
Vis @ Max Load/Unload Temp:	670 cSt
Maximum Storage Temperature:	60 °C (140 °F)
Do not reheat above:	70 °C (158 °F)

For detailed data please refer to the relevant MSDS.

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lubrex@lubrex.com.tr