

Dezel Hi-Base

HIGH-ALKALYNITY HEAVY DUTY DIESEL ENGINE OIL

Dezel Hi-Base is a synthetic blend engine oil for diesel engines operating on high sulfur fuels sometimes used in South America, Africa, Asia and Mexico. High sulfur content in fuel requires engine oils with higher alkalinity (higher Total Base Number) to neutralize increased acidity caused by dirtier fuel. Generally, the recommended minimum base number (TBN) of the engine oil is 20x the sulfur content of the fuel. For example, a diesel engine oil with a TBN of 12 is suitable for use with fuel containing up to ~6,000ppm of sulfur. Dezel Hi-Base is also formulated with Royal Purple's proprietary Synerlec® additive, providing superior protection along with the increased acid neutralization benefits of the high TBN.

Royal Purple's advanced Synerlec® additive technology gives its lubricants their amazing performance advantages. Synerlec® additive technology truly is beyond synthetic. Synerlec® forms a tough, slippery, synthetic film on all metal surfaces. This proprietary film significantly improves lubrication by increasing the oil film's thickness and toughness which help to prevent metal-to-metal contact. It displaces moisture and protects all metals against rust and corrosion, and increases the oxidation resistance of the oil.

PERFORMANCE ADVANTAGES

- HIGH FILM STRENGTH - Synerlec® additive technology dramatically reduces metal-to-metal contact, friction, and wear
- ENHANCED ALKALYNITY - Neutralizes excessive acidity due to dirty high-sulfur diesel fuels
- HIGH BASE NUMBER – Extends oil useful life and oil drain intervals
- EXCEPTIONAL CORROSION & RUST PROTECTION - Prevents internal damage to equipment from chemical attack
- ELEVATED DETERGENCY – Reduces varnish and deposits, disperses soot, helps prevent sludge; keeps engines cleaner
- OUTSTANDING ELASTOMER COMPATIBILITY - Will not harm seals designed for use with lubricating oils; prevents new oil leaks

Typical Physical Properties		
Property	Test Method	15W-40
Viscosity @ 40°C, cSt	ASTM D445	106
Viscosity @ 100°C, cSt	ASTM D445	14.4
Viscosity Index	ASTM D2270	140
Flash Point, °C (°F)	ASTM D92	216 (420)
Pour Point, °C (°F)	ASTM D97	-45 (-49)
Copper Corrosion, @ 100°C	ASTM D130	1A
TBN, mg KOH	ASTM D2896	12.0
HTHS, @150°C, cP	ASTM D5481	4.1
Sulfated Ash, wt%	ASTM D874	>1

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