

# DEZEL HI-BASE<sup>®</sup>

## Super-Tough Diesel Engine Oil



Beyond Synthetic<sup>™</sup>

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Dezel Hi-Base<sup>®</sup> is a synthetic blend engine oil recommended for diesel engines operating on high sulfur diesel fuels commonly found in South America, Africa, Asia and Mexico. Engines using high sulfur fuels require engine oils with higher alkalinity (base numbers) to neutralize the corrosive acids formed when the sulfur in the fuel is burned. Generally, the base number required will be twenty times the sulfur content in the fuel. Dezel Hi-Base<sup>®</sup> is offered in the following standard base numbers: 10, 15, 17, 20 and 30. (For export sale only.) Note: Other base numbers available.

Dezel Hi-Base<sup>®</sup> contains Royal Purple's proprietary Synerlec<sup>®</sup> additive technology, which prevents metal-to-metal contact, thereby greatly reducing all engine wear — including ring, cylinder and bearing wear. This tough, synthetic film adheres to engine surfaces and remains there after shutdown providing instant protection upon startup. Dezel Hi-Base<sup>®</sup> prevents oil breakdown caused by high temperatures, thereby extending both oil and filter life. Dezel Hi-Base<sup>®</sup> is fully compatible with other mineral and synthetic oils and has excellent seal compatibility.

Typical Properties*	SAE Grade		
	30	40	15W40
Viscosity			
cSt @ 40°C	84.4	120.7	105.5
cSt @ 100°C	10.8	14.4	14.4
SSU @100°F	437	626	593
SSU @ 210°F	63	77	77
Viscosity Index	115	120	140
Flash °F	435	445	420
Pour Point °F	-40	-35	-40
Sulfated Ash, % Weight	**1 to 7	**1 to 7	**1 to 7
Copper Corrosion Test	Pass	Pass	Pass
Rust Test			
Fresh Water	Pass	Pass	Pass
Salt Water	Pass	Pass	Pass
Timken OK Load	65	65	65
4-Ball EP Test, Weld Load, kg.	315	315	315
4-Ball Wear Test			
20 kg.	0.35	0.35	0.35
40 kg.	0.37	0.37	0.37
Foam Tendency	Nil	Nil	Nil

\*Properties are typical and may vary

\*\*Proportional to base number. Base numbers can be matched to specific fuels.

Note: The solvency of Dezel Hi-Base<sup>®</sup> cleans wear metals and deposits left by previous oils. These wear metals and deposits may cause abnormally high values on used oil analysis until the engine is clean.

Synerlec<sup>®</sup> additive technology makes the difference!

Synthetic oils enable Royal Purple to make superior lubricants, but it is Royal Purple's advanced Synerlec<sup>®</sup> additive technology that gives Royal Purple's lubricants their amazing performance advantages. Synerlec<sup>®</sup> additive technology truly is *beyond synthetic*.<sup>™</sup>

Synerlec<sup>®</sup> additive technology forms a tough, slippery, synthetic film on all metal surfaces. This proprietary film significantly improves lubrication: first, by increasing oil film thickness and second, by increasing oil film toughness, both of which help to prevent metal-to-metal contact. It displaces moisture from metal surfaces and protects all metals against rust and corrosion. It also fortifies the oil against the detrimental effects of heat, which causes oil to oxidize.

### Performance Advantages:

- **Superior Corrosion Protection**  
Dezel Hi-Base<sup>®</sup> neutralizes the corrosive effects of high sulfur fuel.
- **Energy Efficient**  
Dezel Hi-Base<sup>®</sup> is energy efficient to save fuel.
- **Improves Engine Performance**  
Dezel Hi-Base<sup>®</sup> greatly reduces all engine wear, including ring, cylinder and bearing wear and extends engine life.
- **Extends Drain Intervals**  
Dezel Hi-Base<sup>®</sup> has superior oxidation stability to greatly reduce the amount of oil purchased and disposed of.
- **Keep Engines Clean**  
Dezel Hi-Base<sup>®</sup> has natural synthetic solvency that cleans dirty engines and keeps them clean.
- **Meets API CG-4 Requirements.**
- **Compatible with Other Oils**  
Changing to Dezel Hi-Base<sup>®</sup> is easy. Just drain the old oil, change the filter and add Dezel Hi-Base<sup>®</sup>.