

## PTHD 4010 Package API CF-4/CF/SF

### PRODUCT DESCRIPTION:

**PTHD 4010 Package** is a high- performance crankcase oil additive package designed especially for blending economic heavy duty diesel engine oils at a competitive treat rate.

### GENERAL APPLICATIONS:

**PTHD 4010 Package** is developed specifically for engine oils used in old school type engines or off-road applications.

This technically advanced additive package can be used for blending a range of cost effective diesel engine oils meeting API CD to API CF-4/CF/SF performance level.

PTHD 4010 Package is applicable for both mono and multi-grade oils. By design the package has a high Base Number, so oils blended to the API CF level have a BN in excess of 9. The BS can be boosted further by incorporating a BN booster.

Treat Rate	
API CF-4/CF/SF	4.80%
API CF/SF	4.70%
API CD/SF	3.60%
API CD/SC	3.30%
API CD	3.20%

TECHNICAL DATA SHEET			
TEST	TEST METHOD	UNIT	RESULTS
Appearance	Visual	Transparent brown liquid	
Kinematic, Viscosity at 100°C	ASTM D 445	mm <sup>2</sup> /s	78
Density at 15°C	ASTM D 1298	kg/m <sup>3</sup>	1.04
Flash Point	ASTM D 92	°C	202
Base Number	ASTM D 2896	mg KOH/g	206
Sulfated Ash	ASTM D 874	% mass	26.2
Calcium	ASTM D 4951	% mass	7.39

**Note:** The above values are not specifications and are provided to indicate the typical values measured on the products.

### STORAGE AND HANDLING:

Recommended maximum blending temperature is 70°C. Store away from direct sunlight and keep sealed to avoid atmospheric condensation.