

# VOYAGER فويجر

DRIVE WITH MORE لقيادة واثقة



## Data Sheet نشرة فنية

VOYAGER HD 15W/40, 10W, 20W/20, 30, 40, 50

### DESCRIPTION

Voyager HD is heavy duty diesel engine oil. It developed primarily for high output naturally aspirated or supercharged diesel engines, operating under severe conditions. Voyager HD is formulated from high quality base oils and chemical additives. It can be used in diesel-powered equipment both off-highway and over the road types.

### APPLICATIONS

Voyager HD is recommended for use in high-output diesel engines fitted in automotive, agricultural and construction equipments, operating in fleet and construction business where relatively high sulphur fuel is used and other severe service factors are considered.

### BENEFITS:

- Excellent protection against the effects of high-sulphur fuels.
- Good control on high temperature deposits.
- Improved resistance to ring sticking, ring and cylinder wear, valve and combustion deposits.

### PERFORMANCE LEVEL

API .....CF for all grades  
API .....CF-4 (for 15W/40)  
Allison.....C3

## PRODUCT TYPICAL CHARACTERISTICS

PROPERTIES	UNITS	VALUE							TEST METHOD	
		15W/40	10W	20W/20	30	40	50			
Grade	-	15W/40	10W	20W/20	30	40	50	-		
Specific Gravity	@ 15°C	-	0.8820	0.8855	0.8870	0.8960	0.9010	0.9040	ASTM D-1298	
Viscosity	@ 40°C	mm <sup>2</sup> /s	99.00	46.50	72.50	93.5	134.3	197.2	ASTM D-445	
	@ 100°C	mm <sup>2</sup> /s	13.75	6.75	9.0	10.75	13.75	17.75	ASTM D-445	
Viscosity Index	-	-	140	98	97	98	98	97	ASTM D-2270	
Flash Point	COC	°C	230	225	230	230	250	260	ASTM D-92	
Pour Point		°C	-27	-33	-27	-18	-15	-9	ASTM D-97	
Base Number		mg	10	10	10	10	10	10	ASTM D-2896	
Color		KOH/g	-	2.5	L2.5	L2.5	L2.5	L3.0	3.0	ASTM D-1500
		-	2.5	L2.5	L2.5	L2.5	L3.0	3.0	ASTM D-1500	
CCS Vis	°C	cP	6500	6500	6000	-	-	-	ASTM D-5293	
		°C	@-20	@-25	@-15					

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