



TECHNICAL DATA SHEET

DECATHLON™ EXTREME SYNTHETIC EXTREME PRESSURE GEAR OIL

Decathlon™ Extreme is formulated to meet the exacting demands of gearboxes operating under the most challenging conditions such as heavy load, shock loading, and frequent reversing action. The fully synthetic base oil blend has been formulated to ensure maximum viscosity stability over varying temperature conditions, making it ideal for applications exposed to cold weather or external sources of heat such as ovens.

Decathlon™ Extreme is the ideal choice in situations where there is excessive internal friction, leading to overheating and wear.

Due to the synthetic base oil and anti-oxidant additives, Decathlon™ Extreme is the recommended where difficult operating conditions shorten the life of conventional gear oils. Contaminants such as sludge, varnish and carbon are minimized or eliminated altogether.

BENEFITS:

- **REDUCED WEAR** - protects against scuffing and pitting to increase gear and bearing life.
- **DEMULSIFIABLE** - readily separates from water.
- **ANTIFOAM** – protects gears, bearings and seals by breaking up air bubbles as they form.

APPLICATIONS:

Use Decathlon™ Extreme on gearboxes that are subjected to severe or shock load, external sources of heat or cold, and on gearboxes that overheat due to internal friction.

Decathlon™ Extreme was designed to meet the specifications of Hitachi for use on final drive planetary gears and front wheel bearings of dump truck models: EH4500 series, EH4500-2 series and EH5000 series. It also meets AGMA 9005-E02, DIN 51517-3, US Steel 224, ISO 12925-1 CKD and Cincinnati Machine Gear.

ASTM #		TYPICAL CHARACTERISTICS					
	ISO Grade	150	220	320	460	680	1000
D-445	Kinematic Viscosity						
	cSt @ 40°C	155.0	220.8	327.9	466.8	727.4	1068.8
	cSt @ 100°C	19.9	25.8	34.4	46.6	65.0	86.8
D-2270	Viscosity Index	148	149	149	157	158	163
D-97	Pour Point, °F (°C)	-42 (-41)	-35 (-37)	-33 (-36)	-29 (-34)	-22 (-30)	-22 (-30)
Gardner Method	Density, lb/gal @ 60°F (15.5°C)	7.09	7.11	7.13	7.15	7.15	7.18
	Specific Gravity, g/cc @ 60°F (15.5°C)	0.8508	0.8534	0.8564	0.8588	0.8588	0.8616
D-92	Flash Point, °F (°C) Cleveland Open Cup	469 (243)	475 (246)	475 (246)	475 (246)	475 (246)	482 (250)
D-2782	Timken OK Load, lb	70	70	70	70	65	65
D-2783	Four Ball EP Weld Point, kg	315	315	315	315	315	315
D-4172	Four Ball Wear Scar Width, mm	0.35	0.35	0.35	0.35	0.38	0.38
	FZG, A/8.3/90	Pass 12	Pass 12	Pass 12	Pass 12	Pass 12	Pass 12
	FZG, A/16.6/90	Pass 12	Pass 12	Pass 12	Pass 12	Pass 12	Pass 12

The above are average values. Minor variations which do not affect product performance are to be expected in normal manufacturing.

PACKAGING

Drums	Pails
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THE WHITMORE MANUFACTURING COMPANY

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