

TECHNICAL DATA SHEET – BDQ-740, 750 and 760

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Description Product

BDQ-740, 750 and 760 are an oil turbine R&O ISO 32, 46 and 68 respectively.

Features and benefits

BDQ-740, 750 and 760 turbine R&O oil are ultimately biodegradable¹ vegetable based formulas that is designed specifically to replace mineral oil based turbine oils in environmentally sensitive hydroelectric (water) turbine bearings. These bearings are subject to humid/moist conditions because of occasional seal leakage, but operate cooler than gas and steam turbine bearings.

BDQ-740, 750 and 760 turbine oil are formulated to perform in R&O systems that require anti-foam, anti-rust, anti-oxidation, and demulsibility properties. They are highly inhibited against moisture and rusting in both fresh and sea water and pass both A and B Sequences of the ASTM D-665 Turbine Oil Rust Test.

BDQ-740, 750 and 760 incorporating specific additives into the formula gives multi-grade synthetic base oil performance by boosting the viscosity index to synthetic levels. This high viscosity index naturally improves the thermal shear stability of the formula and increases load capacity. The extremely low volatility of this product increases the flash and fire safety features.

BDQ-740, 750 and 760 are zinc-free additive system has also been developed that is environmentally friendly and exceeds the load stage 10 in the FZG (DIN51354) requirements for both turbine oils and reduction gears. They also meet the requirements for an ashless GL-3 gear oil.

BDQ-740 750 and 760 turbine R&O oil are ENVIRONMENTALLY RESPONSIBLE products that are formulated from renewable agricultural plant resources.

Typical Specifications			
Grade ISO	32	46	68
API Gravity at 15,6°C	30.4	30.0	28.1
Pounds/Gallon at 15,6°C	7.28	7.30	7.38
Specific Gravity at 15,6°C	.874	.876	.886
Viscosities :			
at 100°C., cSt.	6.9	9.67	12.5
at 40°C., cSt.	30.87	43.8	64.1
Viscosity Index	184	216	198
Flash Point, COC, °C	236	243	270
Pour Point °C	-40	-39	-36
Copper Corrosion Strip 3hr at 100°C	1B	1B	1B
4 Ball Wear, 1h, 75°C, 1200 RPM, 40 kg	.40	.40	.40
FZG Test	12	12	12
Demulsibility (ASTM D-1401)	40/40/0	40/40/0	40/40/0
Foam Sequence I, II, III (ASTM D-892)	0	0	0
Rust Prevention (ASTM D-665)	Passe	Passe	Passe
Rotary Bomb Oxidative	360	360	360

¹Ultimate biodegradation (Pw1) within 28 days in ASTM D-5864 - Aerobic Aquatic Biodegradation of lubricants.

Packaging

3.78 liters (Gallon), 20 liters (Pail) and 205 liters (Drum).

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