PRODUCT DATA SHEET

ANDEROL 5460 XEP

Synthetic Gear and Bearing Lubricant

ADVANTAGES/BENEFITS

- Excellent oxidation and thermal stability
- Wide operating temperature range
- Lower maintenance costs
- Excellent load carrying ability
- Extended lubricant life
- Improved cleanliness
- Excellent anti wear & EP properties
- Very good rust and copper corrosion prevention
- Compatible with petroleum oils, therefore allowing minimal effort to changeover

COMPATIBILITY

The following seals, paints and plastics are recommended for use in contact with **ANDEROL®** synthetic lubricants. Materials not recommended are also shown. For more information on other materials see our 'Compatibility Guide'.

RECOMMENDED:
Viton, High Nitrile Buna N, Teflon, Epoxy Paint, Oil-Resistant Alkyd, Nylon, Delrin, Celcon, PBT

NOT RECOMMENDED:
Neoprene, SBR Rubber, Low Nitrile Buna N, Acrylic Paint, Lacquer, Polystyrene, PVC, ABS

APPLICATION

- Particularly suited for gear applications exposed to extreme service conditions
- All types of enclosed gear drives
- Bearings, including plain rolling elements and antifriction types
- Enclosed gear cases and speed reducers

ANDEROL 5460 XEP is a synthetic based, high performing gear lubricant to be used in industrial equipment. It was designed to withstand heavy loads and severe conditions resulting in very good micro pitting resistance. The PAO based product gives superior advantages to the mineral oil based products, especially with regards to low pour point, oxidation stability and energy consumption.

ANDEROL 5000 XEP range is available in the grades ISO VG 150, 220, 320, 460, 680 and 1000.
ANDEROL 5460 XEP meets or exceeds the requirements of:
ANSI/AGMA 9005 (table 3)
AISE 224 (formerly USS 224)
DIN 51.517
Cincinnati P-35

PROPERTIES	TEST METHOD	ANDEROL 5460 XEP
ISO VG	ASTM D-2422	460
Appearance @ 20°C	visual	Clear Yellow Liquid
Viscosity @ 40°C, cSt	ASTM D-445	420.2
Viscosity @ 100°C, cSt	ASTM D-445	42.4
Viscosity Index	ASTM D-2270	154
Density @ 15°C, kg/l	ASTM D-1298	0.908
Total Acid Number, mg KOH/g	ASTM D-664	0.5
Flash Point, °C	ASTM D-92	250
Pour Point, °C	ASTM D-97	-42
Foam, Sequence I, II ml	ASTM-892	20
Micro pitting Resistance Test	FVA, 54/11	High
FZG Gear test, Pass Stage	DIN/ISO 14635-1	14
4-Ball Wear, 1200 rpm, 40 kg, 75 °C	ASTM D-4172	0.5
4-Ball Weld, kg	ASTM D-2783	250

(CONTINUED ON PAGE 2)

ANDEROL®
Specialty Lubricants
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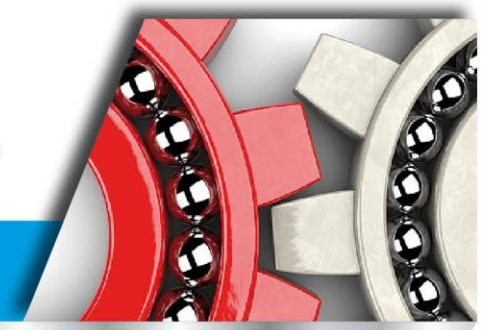

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APPROVALS

- Rossi Motoriduttori
- Hansen Industrial Transmissions (Sumitomo) "Acceptance of Lubricating Oils for Industrial Gear Units", BUI-TEC-2009-4-001
- Maag Gear (FLSmidth) "Recommended Lubricants for Gearboxes and Toothed couplings", Doc No 60000208
- Kumera Drives

PROPERTIES	TEST METHOD	ANDEROL 5460 XEP
FE-8 Industrial Gear requirements	DIN 51819 T1-T3	
Bearing Lubrication Test J1 (FAG Step I)		Pass
Bearing Lubrication Test J2 (FAG Step II)		Pass
FAG Wind Power requirements		
Wind power Level 3 Test L11 (FAG Step III)		Pass
Oil suitability for Wind Energy Plant Applications (FAG Step IV)		Pass

FOR MORE INFORMATION PLEASE REFER TO THE RELEVANT MATERIAL SAFETY DATA SHEET

REGISTRATIONS

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