



INDUSTRIAL GEAR OILS PREMIUM SERIES

World Class Micro-Pitting Protection

ProOne Premium IGO Series gear oils are fortified with XPL+ Extreme Pressure technology and unique next-generation additives that provide the best Micro-Pitting protection available on the market. Outstanding protection from metal fatigue due to high loads, shock or intermittent maximum loads.

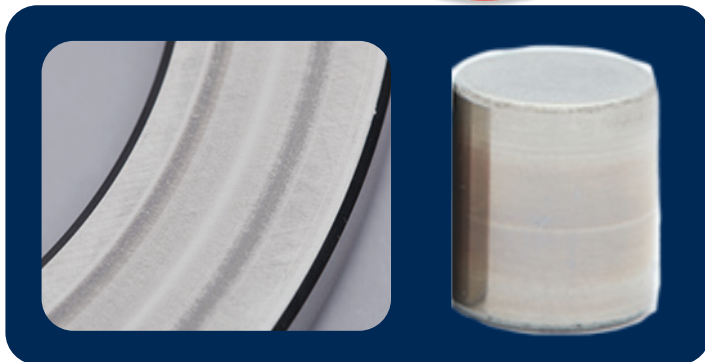
Exceeds all mineral oil based, major brand products on the FE-8 D51819 Bearing Test and the FVA54 Micro-Pitting Test. Available with Low Traction energy efficient formula.

FE-8 BEARING TEST RESULTS

ProOne with

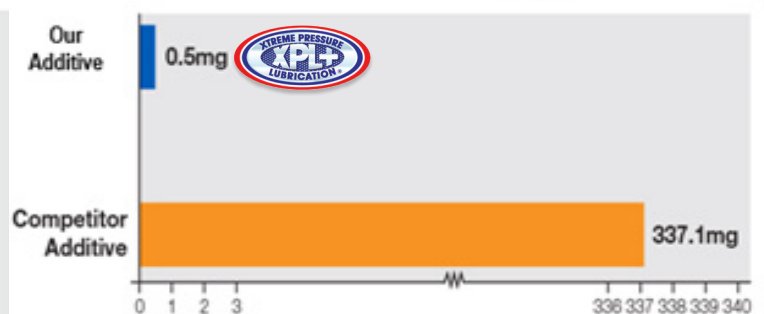
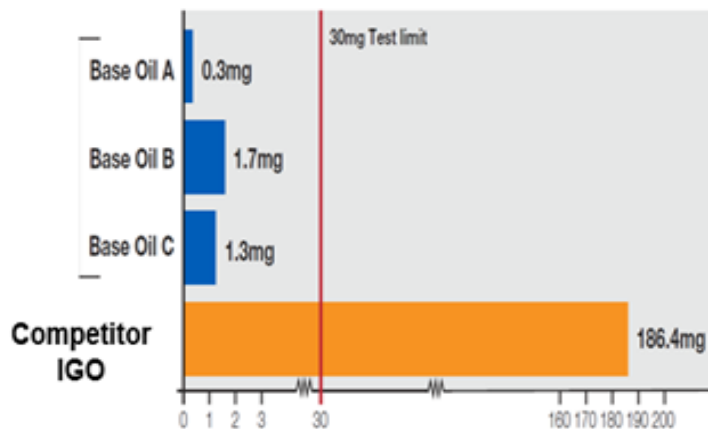


Competitor



After 80 hours

After 160 hours



* After 160hrs our IGO in base oil A still only had 0.5 mg wear, our competitor had 337.1 mg of wear particles that were removed.

INDUSTRIAL GEAR OILS PREMIUM SERIES

ADVANTAGES

- Ultra-High - Extreme Pressure Protection
- Exceeds all mineral-based products on FE-8 D51819 Bearing Test
- Exceptional Micro-Pitting Performance (FVA54 Test)
- Expertly handles Shock/Heavy loading-non-fail/stage 14 of FZG
- Superior Thermal Stability resisting sludge buildup
- Low Traction Lowers Gear Box Temperatures, Reduces Fluid Drag
- Extends Oil Life
- Lowers cost of ownership
- Less Downtime, Higher Reliability
- Continuous duty applications

MEETS OR EXCEEDS

- AGMA 9005-F16
- DIN 51517-3
- Flender GmbH Rev.15
- Chinese GB 5903 L-CKC / L-CKD
- US Steel 224
- Danieli 0.000.001 Rev 15 CKC
- David Brown S1.53.101 Type E
- Indian STD IS 8406
- Schuler Pressen GmbH DT 55 005 Ed 1
- SMS Group SN 180-3
- GM LS2 EP
- Schaeffler FAG Step 1-4
- Renk ZAN 36011 (Augsburg)
- Sumitomo Drive BUI-TEC (Hansen)
- ZF TE ML 04H
- ZF Industrieantriebe Witten ZFN-W 17-145 Rev 2

TYPICAL PROPERTIES

| PREMIUM MP MICRO-PITTING PROTECTION | ISO 100 | ISO 150 | ISO 220 | ISO 320 | ISO 460 |
|--|---------------|--------------|--------------|--------------|--------------|
| Viscosity @ 40°C / 100°C | 100.2 / 10.98 | 150.3 / 14.9 | 220.8 / 20.4 | 320.3 / 25.8 | 461.1 / 33.6 |
| Viscosity Index | 93 | 99 | 108 | 110 | 110 |
| Specific Gravity | 0.884 | 0.886 | 0.883 | 0.891 | 0.895 |
| Color | Golden | Golden | Golden | Golden Brown | Golden Brown |
| Flash Point °C | 237 | 255 | 237 | 254 | 240 |
| FZG Pass Load Stage | 14 | 14 | 14 | 14 | 14 |

| PREMIUM MP MICRO-PITTING PROTECTION (LOW TRACTION) | ISO 100 | ISO 150 | ISO 220 | ISO 320 | ISO 460 |
|--|-------------|--------------|--------------|--------------|--------------|
| Viscosity @ 40°C / 100°C | 99.7 / 12.9 | 154.1 / 21.2 | 225.2 / 28.7 | 325.8 / 38.0 | 463.4 / 51.3 |
| Viscosity Index | 126 | 162 | 166 | 167 | 174 |
| Specific Gravity | 0.879 | 0.886 | 0.887 | 0.894 | 0.896 |
| Color | Golden | Golden | Golden | Golden Brown | Golden Brown |
| Flash Point °C | 237 | 255 | 237 | 254 | 240 |
| FZG Pass Load Stage | 14 | 14 | 14 | 14 | 14 |