



APAR

Tomorrow's solutions today

POWEROIL[®]

Powering Ahead



POWEROIL INJECTION MOULDING

HLP PRO INFUSES LIFE INTO YOUR INJECTION MOULDING MACHINE

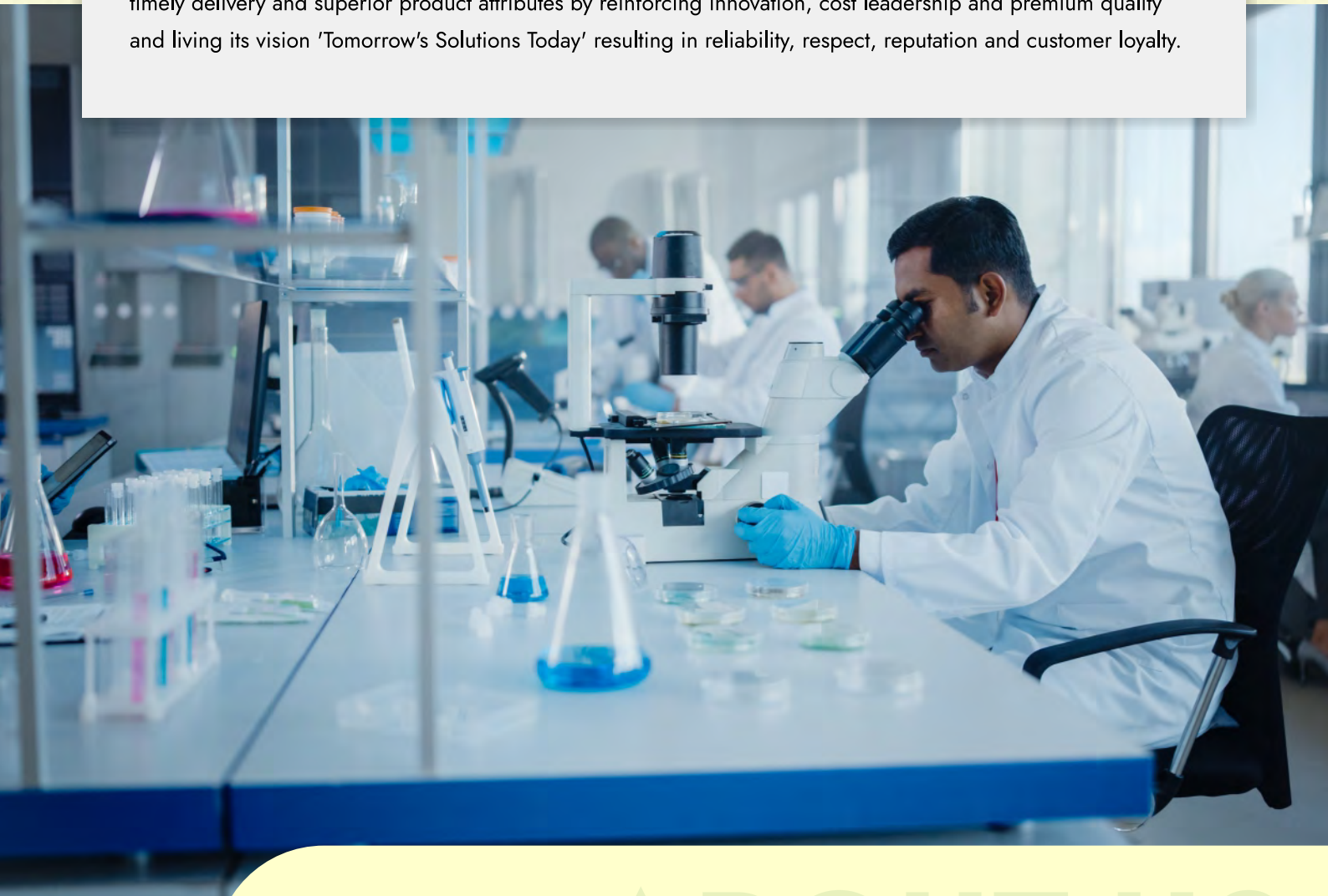


APAR Industries Limited is a multi-national manufacturing company, holding a leadership position in its three core business segments of speciality oils, conductors and cables, with a billion-dollar turnover. Our other businesses includes automotive and industrial lubricants, speciality automotive and polymers. Our products have a significant market share in India and are sold in over 125 countries.

Our POWEROIL range of speciality oils encompasses 350+ grades of Transformer Oils, White Oils, Petroleum Jellies, Process Oils, Industrial and Automotive Lubricants. We are the third largest Transformer Oil manufacturer globally, trusted by major OEMs, utilities, power generation, transmission & distribution companies.

Out of our seven 100% owned manufacturing facilities in India, two facilities are dedicated to our speciality oils business (Rabale, Maharashtra and Silvassa, Gujarat). Our third speciality oils factory is in Hamariyah free zone (Sharjah, UAE), catering to the Middle East and North African markets. All three facilities' annual production capacity adds up to over 5,20,000 KL, (among the largest in the world). In addition to these, we have blending units in Turkey and Australia.

For over five decades, POWEROIL has been leading the industry curve with proactive product development, timely delivery and superior product attributes by reinforcing innovation, cost leadership and premium quality and living its vision 'Tomorrow's Solutions Today' resulting in reliability, respect, reputation and customer loyalty.



ABOUT US

ABOUT APAR GROUP



OUR PRODUCT RANGE

We at APAR manufacture a wide range of Industrial & Automotive and Specialty Lubricants at our state-of-art blending plants at Rabale and Silvassa (D.N.H) under SCADA controlled operations. Both the facilities are accredited with ISO 9001-2015 & ISO 14001-2015 quality systems providing high accuracy blending. Our quality control laboratory is accredited with NABL and is approved by DISR.

POWEROIL HYDROL HLP Pro

Our high performance, super-clean next generation hydraulic oil for injection moulding machines

Product performance standards

| | | | |
|--|---|--|-------------------|
| Parker (formerly Denison) HF-0, HF-1, HF-2 (HM) | Cincinnati P-69 & P-70 | Eaton M-2950-S & I-286-S3 | IS 11656 (latest) |
| DIN 51524-2 (HM) | ISO 11158 (HM) | ASTM D6158 (HM) | SAE MS 1004 (HM) |
| | Bosch Rexroth RE 90220/ 90240/ 90245 | JCMAS P041 HK hydraulic specification | |

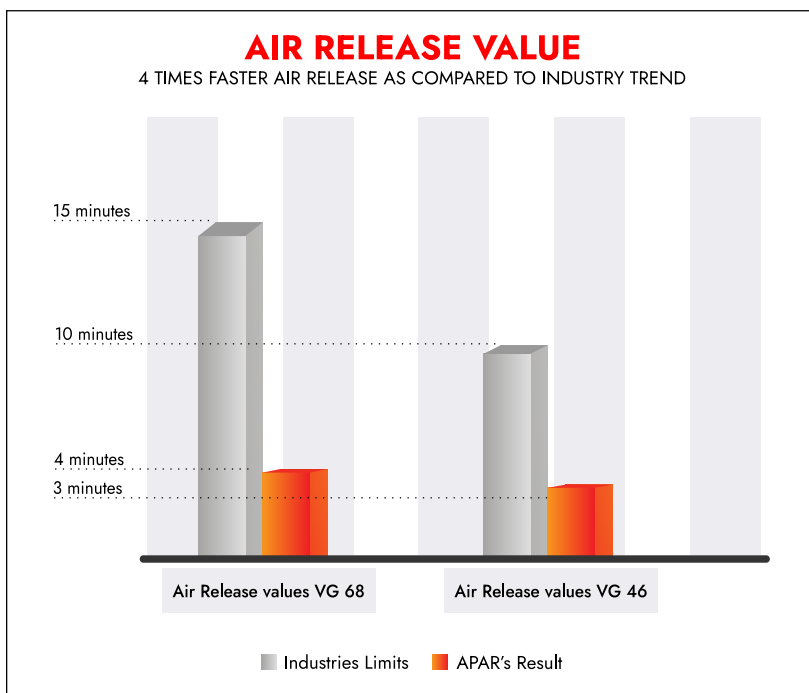




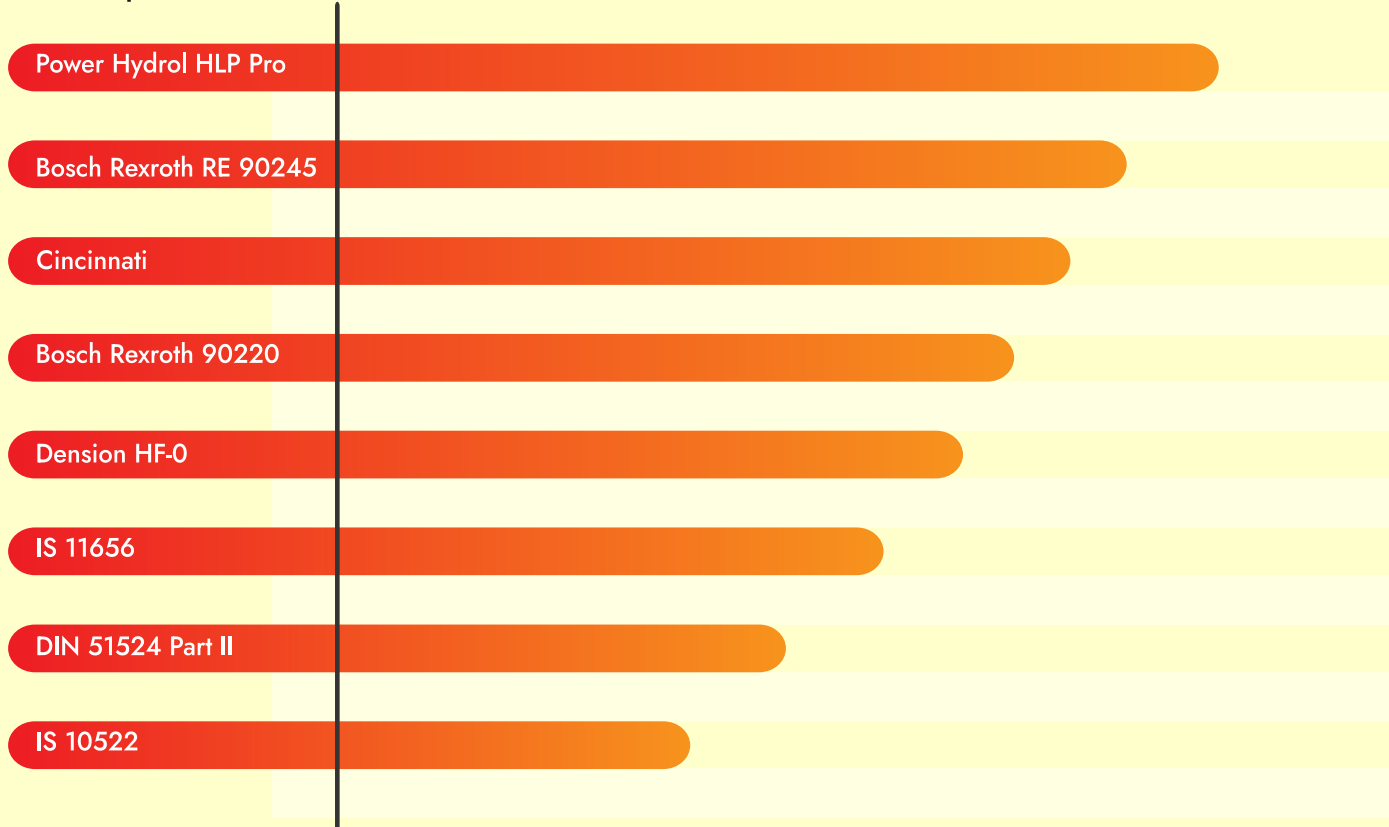
APAR Industries POWEROIL Hydrol HLP Pro

POWEROIL Hydrol HLP Pro

- ◆ Viscosity grade(s): 46/68
- ◆ Rating number: BR-1010-0076
- ◆ Bosch rexroth fluid rating list RDE9024



Overall performance





APAR Industries **POWEROIL Hydrol HLP Pro**

Super clean hydraulic fluids ISO 4406 NAS 1638

- ◆ POWEROIL Hydrol HLP Pro series is meeting super clean category in line with ISO 4406 and NAS 1638 classification.

Superior base oils

- ◆ POWEROIL Hydrol HLP Pro is a unique blend of a selective additive package with superior group II+/group III base oils to impart various exceptional properties like enhanced fluid durability, excellent air release value, high VI, extended drain interval, excellent thermal/oxidation and hydrolytic stability.
- ◆ Imparts a high level of protection for hydraulic systems operating at very high pressure and with very narrow clearances.
- ◆ Fully saturated base oils, excellent sludge and varnish protection.
- ◆ Excellent oxidation & thermal stability imparts longer drain intervals.
- ◆ Imparts excellent protection & durability to the hydraulic system.

| CHARACTERISTICS | POWEROIL HYDROL HLP PRO | |
|--|-------------------------|---------------------|
| ISO VG | 46 | 68 |
| Viscosity index, min. | >120 | >115 |
| Steel corrosion test- DIN 51585 | 1a | 1a |
| FZG load stage | 12th | 12th |
| TOST, hrs. | >6000 | >6000 |
| Demulsification (D 1401) minutes | 12 | 12 |
| Air release value @ 50C, max, minutes | 3 | 4 |
| Thermal stability test at 135C for 168 hrs | Exceeds requirement | Exceeds requirement |
| Cleanliness level as per ISO 4406 | 17/15/12 | 17/15/12 |

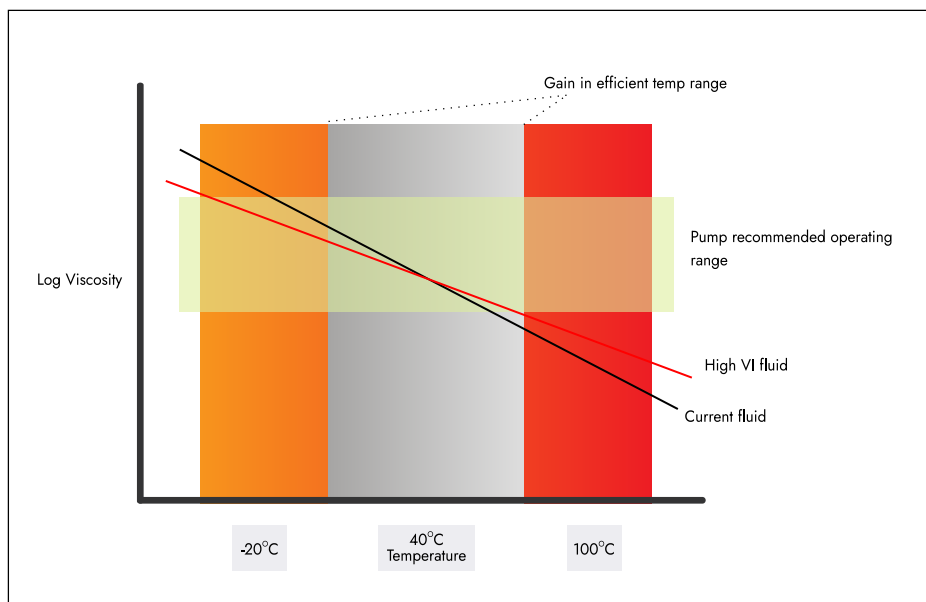


Basic three fluid properties define the energy efficiency of hydraulic fluids:

- ◆ Lower and optimum fluid density.
- ◆ Frictional properties - PV/viscous drag.
- ◆ High viscosity index - optimum viscosity.

APAR POWEROIL Hydrol HLP Pro offers superior performance in all the above three parameters compared to the conventional products available in the market. It is defined and designed under the specifications of energy-efficient fluids.

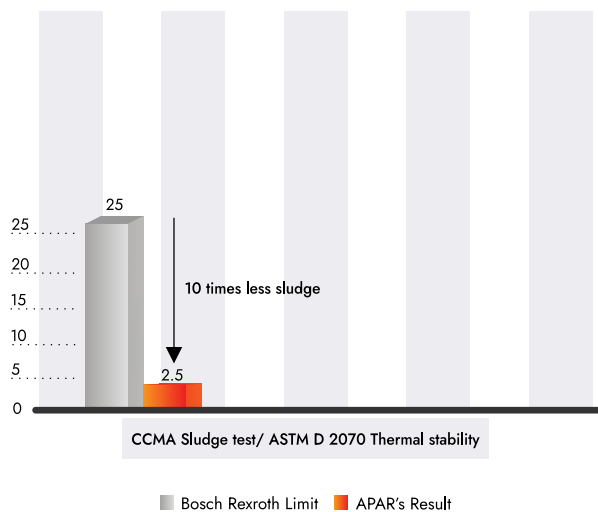
High VI viscosity index





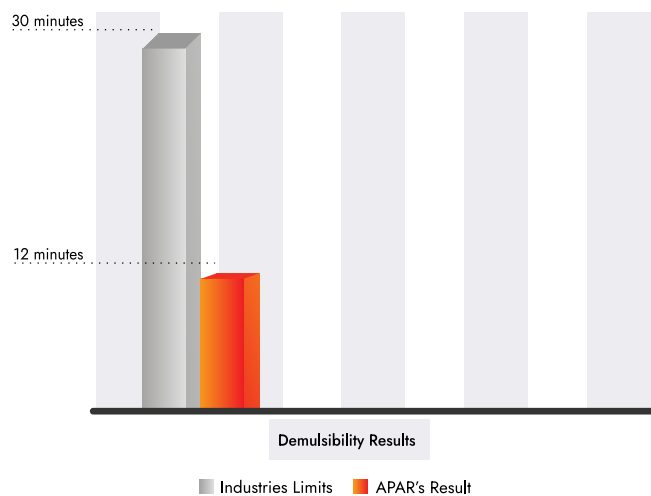
THERMAL STABILITY TEST

4 TIMES FASTER AIR RELEASE AS COMPARED TO INDUSTRY TREND



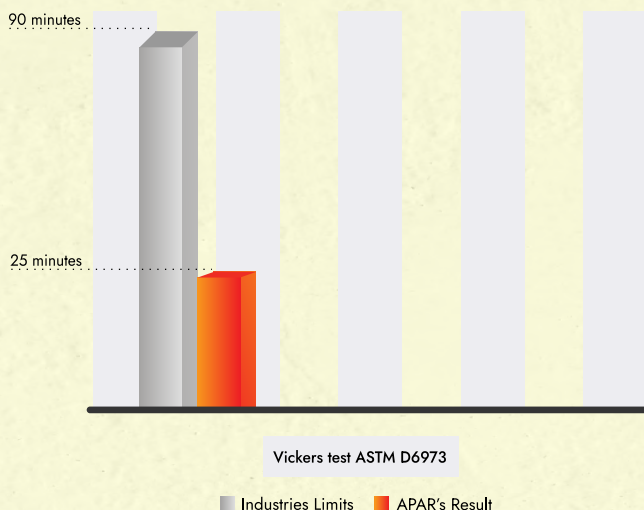
DEMULSIBILITY TEST

25% HIGHER WATER SEPARATION PROPERTIES COMPARED THE BEST PRODUCT AVAILABLE IN MARKET



PUMP WEAR TEST

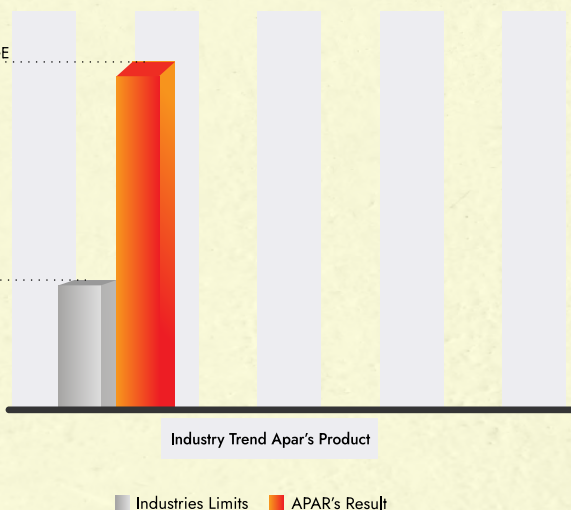
75% MORE WEAR PROTECTION AS COMPARED TO INDUSTRY TREND



FZG RATING

12TH STAGE

10 STAGE

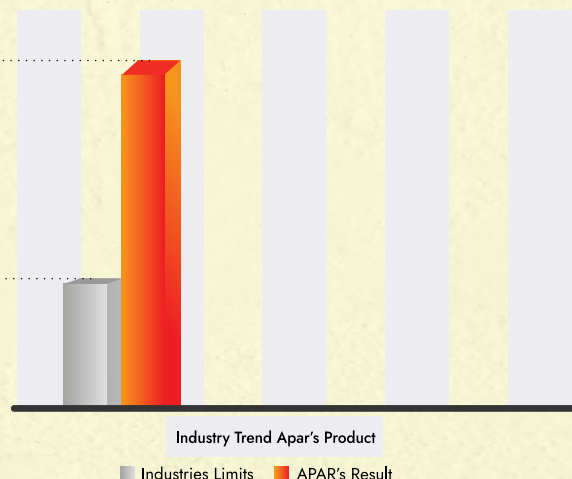


TOST LIFE

ALMOST TWICE HIGHER TOST LIFE AS COMPARED TO INDUSTRY TREND ASTM D943 HRS TO 2.0 TAN

6000 Hrs

3000 Hrs

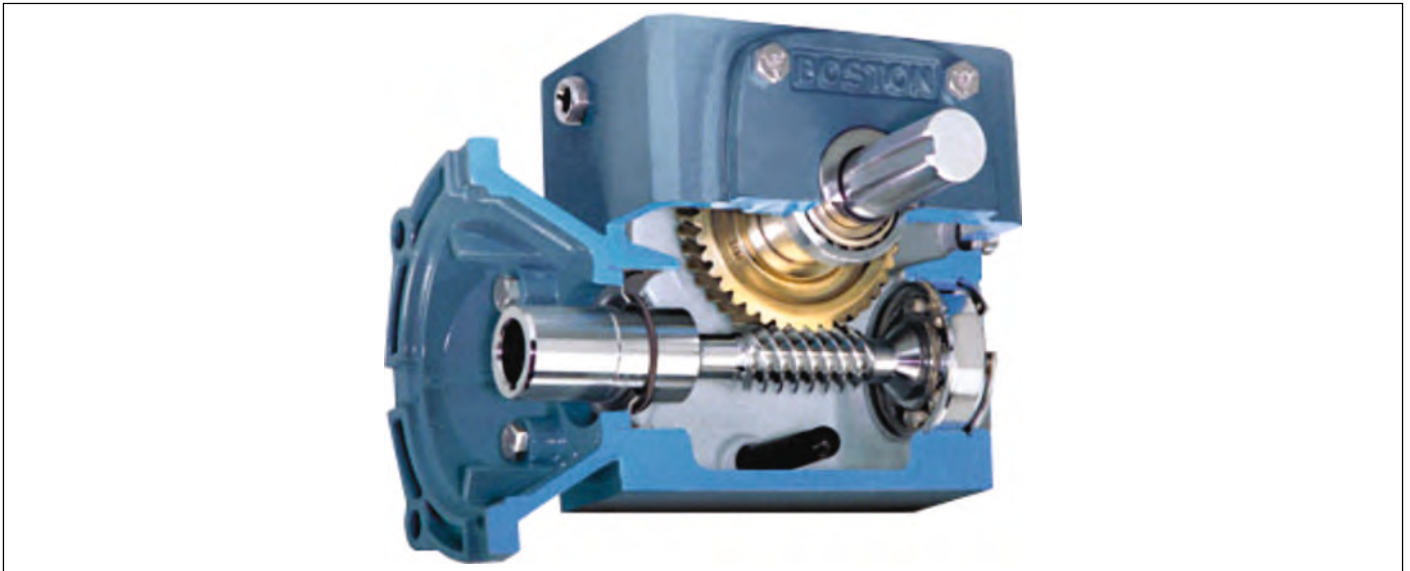


LUBRICATING OIL & GREASE FOR INJECTION MOLDING MACHINE



Lubricating oil for heavy-duty loads

POWEROIL Gear SP (ISO VG 220-680)



Genuine greases for excellent lubrication

POWEROIL GEM CBP Grease (NLGI 00)

POWEROIL GEM EP1 (NLGI 1) / EP2 (NLGI 2)





OIL ANALYSIS

SPECIALIST IN USED OIL ANALYSIS:

Water content analysis



Oxidation



Particle count



Elemental analysis



Physio-chemical parameters water content analysis





OUR ESTEEMED PARTNERS



MILACRON INDIA PRIVATE LIMITED



WINDSOR MACHINES LTD.



YIZUMI PRECISION MACHINERY
INDIA PVT. LTD



SHUANGMA MACHINERY
INDIA PVT. LTD



JH-WELLTEC MACHINES INDIA
PVT.LTD



FCS MACHINERY INDIA
PVT. LTD



SUMITEK NATRAJ MACHINERY
PVT.LTD



S & T PLASTIC MACHINES
PVT.LTD



D & M MACHINE TOOLS



POWEROIL®
Powering Ahead

Corporate Office

APAR Industries Limited APAR House,
Corporate Park, V N Purav Marg
Chembur, Mumbai 400 071, India

Tel: +91 22 25263400 / 6780 0400

Fax: +91 22 25246326

Registered Office

301 / 306, Panorama Complex,
RC Dutt Road, Vadodara 390 007, INDIA

Tel: +91 265 2323 175 / 2323 176

Send your enquiry to: corporate@apar.com | Web: www.apar.com

[in @aparindustrieslimited](#) [f @AparIndustriesLtd](#) [@apar_industries_limited](#) [@AparIndustries](#) [Apar Industries Limited](#)