

IMO LB™ THREE-SCREW PUMPS

WORKHORSES IN THE OILFIELD

IMO LB: A PUMP BUILT TO LAST FOR LACT BOOST

A Lease Automatic Custody Transfer (LACT) skid is only as good as its component parts. Every part of that skid should be engineered for two outcomes:

- › Maximum functional performance and accuracy
- › Minimum operating expenses

Despite challenging viscosities ranging from 1-2000 cSt and oil contaminants prevalent in harsh field conditions, LACT system builders and oil drillers have found a pump they can rely on.

IMO LB three-screw pumps offer:



- › **High-pressure boost advantages:** Our screw pumps boost oil pressure better than typical gear pump solutions such as Competitor G Pump (even at 1cSt).



- › **Less downtime:** With pump technology that forms protective closures around contaminants, costly maintenance intervals experienced from direct wear on gear pumps are a worry of the past.



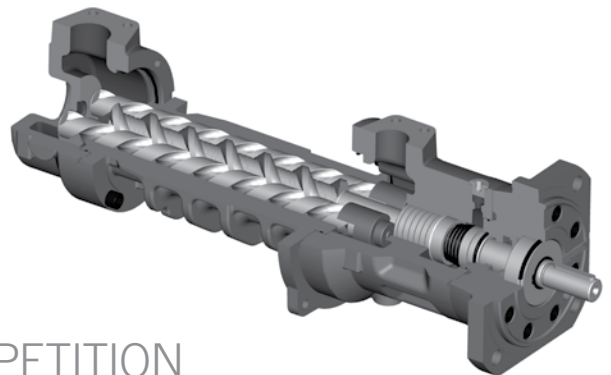
- › **Thoughtful engineering:** Key features of IMO LB pumps include surface hardness similar to ceramic in the housing bores (1200HV) and a silicon carbide mechanical seal design for limited distortion.



- › **Reduced capital cost:** IMO LB Series' wear resistance – and thus service life – has been shown to outperform Competitor G Pump products by a factor of five.



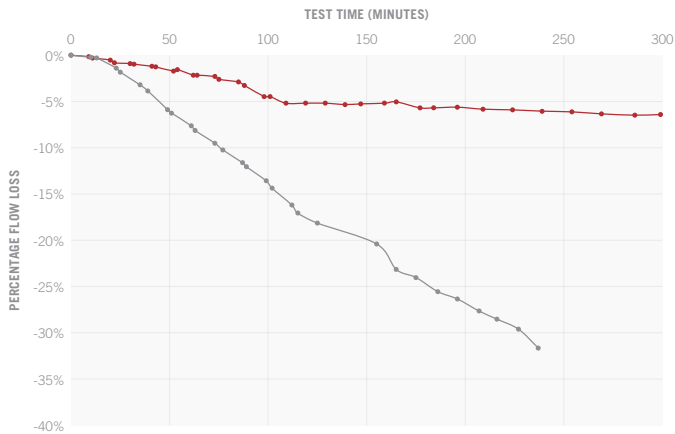
- › **Compatible with existing gear pump installations:** Adapter kit available that utilizes the same connection points as Competitor G pumps.



IMO LB STANDS UP AGAINST THE COMPETITION

The results of four hours of accelerated wear testing of oil fluid with 0.5% hard particle contaminant in a simulated LACT booster installation revealed flow loss nearly five times lower with the LB Series than with a gear pump alternative. The Competitor G gear pump lost 32% of its flow over that test period while IMO LB lost just 6%.

ACCELERATED WEAR TEST: FLOW LOSS VS TIME



- IMO LB
- COMPETITOR G

IMO LB SERIES SPECIFICATIONS FOR LACT BOOSTING SYSTEMS

MATERIALS OF CONSTRUCTION

Rotor Housing Cast Iron - basic hardness
(62 HRC) 1200 HV surface hardness

Inlet Head Cast Iron

Discharge Casing Cast Iron

Power & Idler Rotors Alloy Steel Gas Nitrided (62 HRC) Hard Coat (1200 HV)

Mounting Flange Cast Iron

Mechanical Seal Silicon carbide, fluorocarbon elastomer

Elastomer Fluorocarbon

LB SERIES PERFORMANCE PARAMETERS

Capacity 30 - 120 gpm / 1000 - 4000 BPD

Temperature Range to 176° F

Max Inlet Pressure 145 psig

Differential Pressure 870psi Sizes -217 & -236
725psi Size -276

Max Outlet Pressure 870psi Sizes -217 & -236
725psi Size -276

Viscosity Range 1 to 2000 cSt

AN ADVANCED LACT SYSTEM SOLUTION IS AVAILABLE NOW

IMO three-screw technology is installed in hundreds of high-pressure pipeline applications around the world. Beyond their substantial functional excellence, the pumps' simple design provides maintenance advantages that further enhance their value in critical applications. If you're in the market for increased uptime, longer maintenance intervals and longevity in service, why not give us a try?

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