IMO LB6D 3-SCREW PUMPS

WORKHORSES IN THE OILFIELD

IMO LB6D: A PUMP DESIGNED 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 expense

Despite challenging crude oil viscosities and oil contaminants prevalent in harsh field conditions, LACT system builders and oil drillers have found a pump they can rely on.

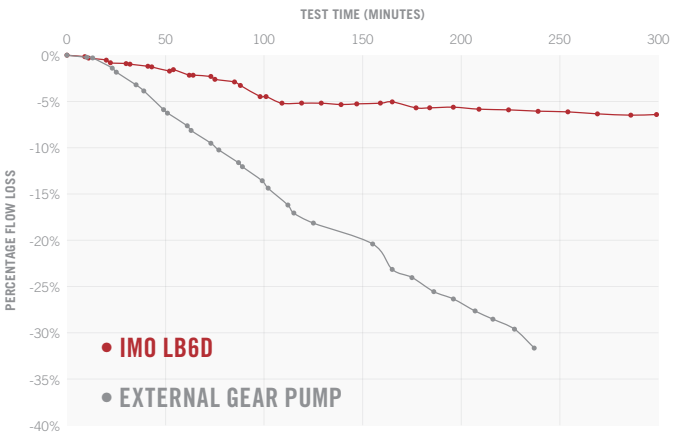
IMO LB6D three-screw pumps offer:

- **High-pressure boost advantages:** Our screw pump technology boosts oil pressure more efficiently than competitive external gear pump technology. Reduced airborne noise is also an attribute of the IMO rotary, 3-screw technology.
- **Less downtime:** With pump technology that forms protective closures around contaminants, costly maintenance intervals experienced from direct wear on external gear pumps are a worry of the past.
- **Thoughtful engineering:** Key features of IMO LB6D pumps include surface hardness similar to ceramic in the housing bores and silicon carbide mechanical seal faces ensure long service life.
- **Reduced capital cost:** IMO LB6D Series' wear resistance – and thus service life – has been shown to outperform gear pump technology by a factor of five.

IMO LB6D SERIES PUMP PERFORMANCE OUTPERFORMS 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 LB6D Series than with an external gear alternative. The competitive gear pump lost 32% of its flow over that test period while IMO LB6D lost just 6% before stabilizing.

ACCELERATED WEAR TEST: FLOW LOSS VS TIME



TYPICAL PERFORMANCE BY ROTOR SIZE

Pump Model:	Min Flow*	Max Flow*
LB6DVCN-217P	1,130	2,195
LB6DVCN-217P	1,440	2,740
LB6DVCN-236G	1,680	3,240
LB6DVCN-236	1,990	3,740
LB6DVCN-276P	2,675	4,870
LB6DVCN-276	3,395	6,170

*Flow rates are approximate and measured in Barrels Per Day.
Contact factory for pump selection and performance.

IMO LB6D SERIES SPECIFICATIONS FOR LACT BOOSTING SYSTEMS

MATERIALS OF CONSTRUCTION

Rotor Housing	Nodular Iron - basic hardness (62 HRC) surface hardness
Inlet Head	Nodular Iron
Discharge Casing	Nodular Iron
Power & Idler Rotors	Alloy Steel Gas Nitrided (62 HRC) and PVD hard coat
Mechanical Seal	Silicon carbide faces, fluorocarbon elastomer
Elastomer	Fluorocarbon

LB6D SERIES PERFORMANCE PARAMETERS

Capacity	30 - 180 gpm / 1000 - 6200 BPD
Temperature Range	to 176° F
Max Inlet Pressure	100 psig
Max Differential Pressure*	1450 psi
Max Outlet Pressure*	1450 psig
Viscosity Range	1.5 to 760 cSt

*Maximum pressures are dependent on rotating speed and fluid viscosity.
Contact factory for details.

AN ADVANCED LACT SYSTEM SOLUTION IS AVAILABLE NOW

IMO 3-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?

CIRCOR | IMO® PUMP

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