



SVR™ PRODUCT BULLETIN

Industry-leading solution for removing and preventing lubricant varnish

SVR IS THE FIRST OF ITS KIND, ENGINEERED LUBRICANT CONDITIONING SYSTEM, DESIGNED TO PROTECT AND MANAGE LUBRICANT LIFE AND SYSTEM RELIABILITY.

Utilizing patented ICB™ purification filters, SVR goes beyond solid contamination removal, hyper-focused on the root cause of lubricant failure; dissolved oxidation material. As a result of managing oxidation material, lubricant breakdown and additive consumption decrease significantly, mitigating equipment related failure.



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Rethink. Remove. Restore.

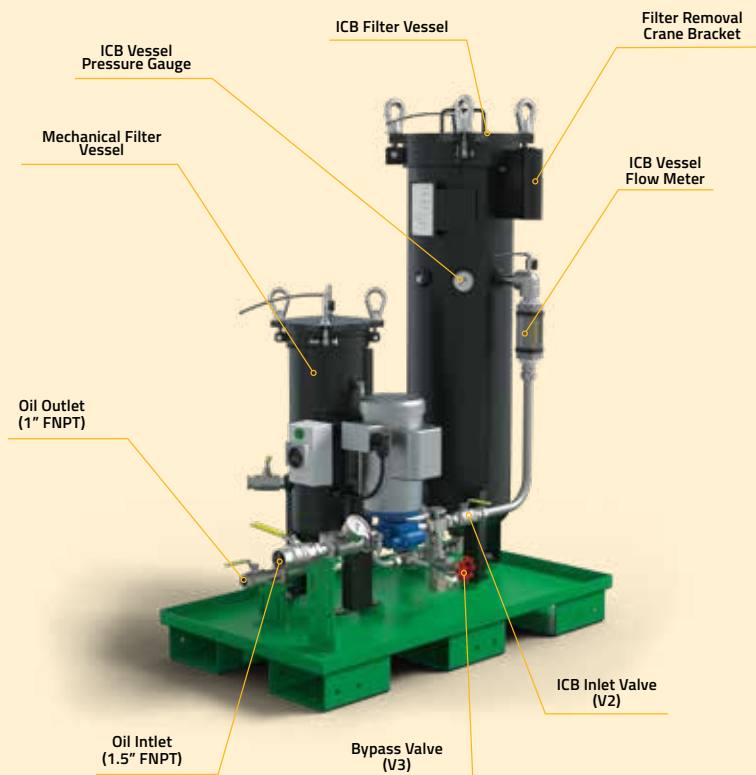
MAINTAIN LUBRICANT SOLVENCY

Common practices misunderstand lubricant varnish. It is seen as an oil quality issue. The truth is, all lubricants form dissolved breakdown products. If this is allowed to accumulate, the lubricants capacity to hold dissolved oil breakdown products is exceeded.

During normal turbine operation, EPT Clean Oil's SVR™ - Soluble Varnish Removal system, permanently removes and prevents the accumulation of dissolved breakdown products. This prevents harmful varnish deposits from ever forming.

SVR FEATURES AND BENEFITS

- Quickly reduces and prevents servo valve sticking
- Restores normal MPC varnish potential and acid number (TAN/AN)
- Proven protection against solid and dissolved varnish
- Significantly reduces solid contamination
- Works all the time including operating conditions when varnish is dissolved in the oil
- Eliminates the varnish formation cycle that typically occurs when the oil cools during turbine shut down
- Engineer approved system designed to facilitate rapid approval and deployment
- Very low maintenance and time requirement – turn it on and let it run
- Low cost of ownership and operation
- **No downtime - SVR can be installed without an outage**



SVR INCLUDES

- EPT Clean Oil's industry leading patented ion-exchange resin technology to remove soluble contaminants including acids and dissolved metals
 - One complete set of ICB™ filters are included with SVR purchase
- Fluid Technical Center support until results are documented
- 3-year warranty on all parts



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SVR SYSTEM SPECIFICATIONS

	SVR 150	SVR 300	SVR 600	SVR1200	SVR 2400
Dimension LxWxH	120 x 79 x 102 cm 47" x 31" x 40"	120 x 79 x 148 cm 47" x 31" x 58"	122 x 66 x 102 cm 48" x 26" x 40"	122 x 66 x 148 cm 48" x 26" x 58"	178 x 76 x 148 cm 70" x 30" x 58"
Weight	159 kg / 350 lb	181 kg / 400 lb	201 kg / 550 lb	273 kg / 600 lb	454 kg / 1000 lb
Connections Inlet/Outlet FNPT:	1.0" / 1.0"	1.0" / 1.0"	1.5" x 1.0"	1.5" / 1.0"	2.0" x 1.5"
Reservoir Volume	1600 L / 420 gal	3200 L / 845 gal	6400 L / 1690 gal	20000 L / 5280 gal	40000 L / 10560 gal
Operating Temperature	86°F to 176°F (30°C to 80°C)				
ICB™ Flow Rate*	2.0 lpm / 0.5 gpm	4.0 lpm / 1.0 gpm	8.5 lpm / 2.5 gpm	19.0 lpm / 5.0 gpm	38.0 lpm / 10.0 gpm
Reservoir Exchange Rate/24 hr	1.8x	1.8x	1.8x	1.44x	1.44x
Electrical Options	115VAC / 1Ph / 60Hz (General Purpose) is standard. Other electrical options are available. Explosion Proof (Class I, Div I and Div II) options are available.				
Current	13.2 Amps (at 115VAC / 1Ph / 60Hz)				
Fluid Compatibility	Petroleum and mineral based fluids only (standard). For phosphate ester and other specified synthetic fluids, see additional SVR PE and SVR Aero.				

*For normal lubricant maintenance, the desirable flow rate is to exchange the fluid reservoir volume 1 – 2x per day. For recovery projects, higher exchange rates are desired.

Note: Using the above sizing, 80% of sites are typically restored with 2 sets of filters with a replacement interval of 6 weeks. The clean-up or restoration period is typically 3 – 4 months. Heavily contaminated sites normally require 3 sets of filters with a replacement interval of 1 month. After lubricant restoration is complete, the normal fluid maintenance mode requires that filters are replaced annually. All installations include detailed monthly analysis until clean-up period is complete.

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