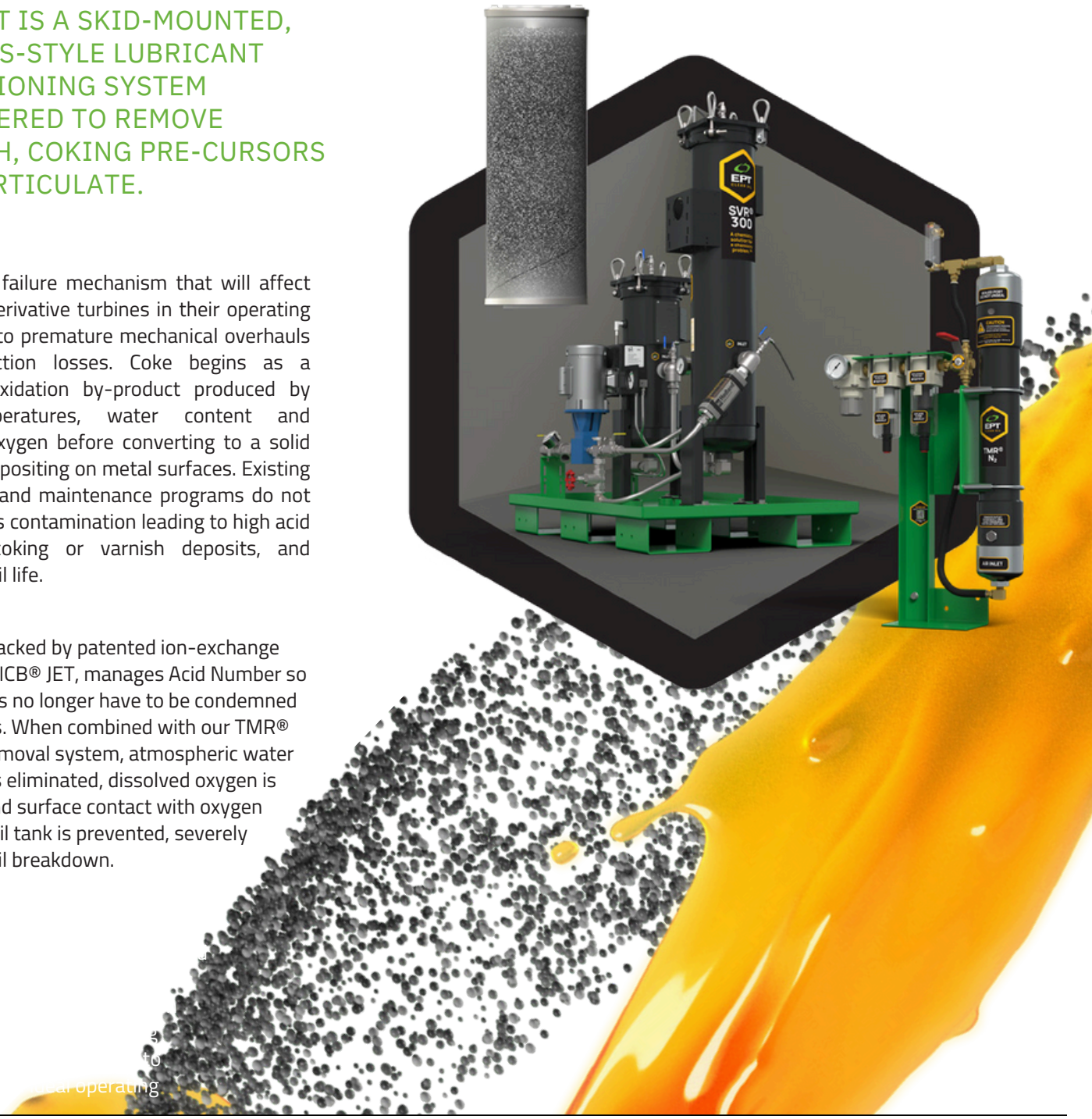
Aeroderivative Turbine Oil

EPT™
CLEAN OIL

SVR® JET PRODUCT BULLETIN

Protect your aeroderivative turbine application with a bulletproof vest.

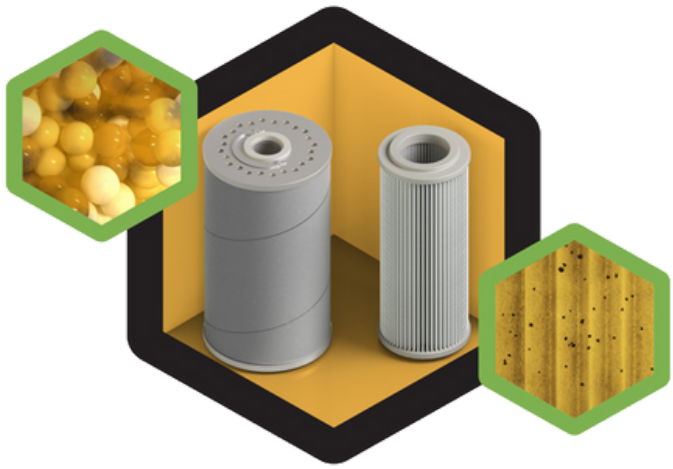
SVR® JET IS A SKID-MOUNTED, DIALYSIS-STYLE LUBRICANT CONDITIONING SYSTEM ENGINEERED TO REMOVE VARNISH, COKING PRE-CURSORS AND PARTICULATE.



Coking is a failure mechanism that will affect most aeroderivative turbines in their operating life leading to premature mechanical overhauls and production losses. Coke begins as a dissolved oxidation by-product produced by high temperatures, water content and entrained oxygen before converting to a solid form and depositing on metal surfaces. Existing oil analysis and maintenance programs do not consider this contamination leading to high acid numbers, coking or varnish deposits, and shortened oil life.

SVR® JET, backed by patented ion-exchange technology, ICB® JET, manages Acid Number so that jet lubes no longer have to be condemned on this basis. When combined with our TMR® N2 water removal system, atmospheric water ingression is eliminated, dissolved oxygen is removed, and surface contact with oxygen in the lube oil tank is prevented, severely restricting oil breakdown.

- Utilizes patented ICB JET ion-exchange technology with over 30 million successful operating hours
- Removes dissolved oxidation by-products, or coking precursors, which are the feedstock from which all coking deposits are formed, breaking the lubricant deposit formation cycle, protecting bearings and other critical components
- Selectively removes acids and stabilizes the acid number providing optimal lubricant quality throughout the lubricant lifecycle while protecting mechanical components
- Protects hydraulic variable geometric control systems from sticking
- Resolves known issues when speed changes occur
- Protects against compressor surges and catastrophic engine failure
- TMR N2 generates high purity nitrogen from a standard compressed air source to blanket the oil reservoir removing water and eliminating contact with oxygen, protecting the lubricant and eliminating catalysts that contribute to oxidation
- Quickly removes and maintains low water levels without consumable elements
- Quickly reduces entrained oxygen and promotes dissolved gas removal
- Eliminates the primary ingression pathway for water and metal contamination, thereby promoting chemical stability of the lubricant and reducing maintenance requirements
- Reduces ISO particle counts, protecting and extending roller element bearings' trouble-free operating window
- **No downtime - SVR can be installed without an outtage**



- One complete set of EPT Clean Oil's patented ICB JET and mechanical post filter's
- Fluid Technical Center support until results are documented
- Online training, commissioning resources and warranty registration

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"
Weight	159 kg / 350 lb	181 kg / 400 lb	201 kg / 550 lb
Crated Dimension LxWxH			145 x 92 x 125 cm 57" x 36" x 49"
Crated Weight			400 kg / 882 lb
Connections Inlet/Outlet FNPT:	1.0" / 1.0"	1.0" / 1.0"	1.5" / 1.0"
Reservoir Volume	<500 L /132 gal	<850 L / 225 gal	>850 L / 225 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
Reservoir Exchange Rate/24 hr	5.7x	6.8x	10x
Acid Reduction Per Filter Set	0.18	0.36	0.90
Electrical Options	120VAC / 1PH/ 60 Hz is standard. Explosion Proof (Class 1, Division 1) is recommended. Other options and voltages are available.		
Current	13.2 Amps (at 120VAC /1PH /60Hz)