



Long term proven results on seven GE frame 7FA turbines. Oil with 8 years in service with expected viability until... ????



Total Run Hours 31,472 In Service Time 7.8 years ISO Codes 15/13/09 RPVOT 82% Varnish Potential 10 Gravimetric Patch - 39 mg/L Average Annual Maintenance Cost \$815.00 Downtime due to Varnish ZERO

ISOPur Fluid Technologies MR series systems were installed on these turbines 4.5 years ago when varnish potentials were as high as 47 and as low as 36. ISOPur BCA systems currently purify 2.3 billion gallons of oil per year. If you would like help protecting your lube or hydraulic system from mechanical wear, submicron particles, varnish and oxidation contact your ISOPur Fluid Technologies representative today. We would like to work with you.

ISOPur Fluid Technologies, 183 Providence New London Turnpike Suite W3, North Stonington CT 06359. Phone 860-599-1872 – Fax 860-599-1874 – Email <u>info@isopur.com</u> – Web site <u>www.isopurfluid.com</u> * estimated for two filter changes per year including filter cost and labor at \$60.00 per hour

Louisville, KY 40299 ANALYSTS, INC.





OSA[®]

lubricant sample

ISOPur

IS OPUR FLUID TECHNOLOGIES			CURRENT VARNISH POTENTIAL RATING (VPR SM)				
70 INWOOD ROAD							
ROCKY HILL, CT 06067		0	20	40	60	80	100
Attn: ALVARO IBARRA / LO	GISTIC MGR						
UNIT ID	COMPONENT ID	COMPONENT	REF NO			OIL TYPE	
unit id 4/7	COMPONENT ID 2A CT ISOP OUT	COMPONENT 88618			CHEVF	OIL TYPE	50 32
			45				

INTERPRETATION OF CURRENT DATA

The varnish potential of the lubricant is NORMAL. This means that there is an acceptably low level of soft contaminants due to oil degradation. Recommended sampling interval for this component is quarterly. Please refer to the routine report for additional data and recommendations.

The QS A Varnish Potential Rating describes the used lubricant's propensity to produce harmful deposits. Ratings and sample severity are assigned based on the level of varnish-producing contaminants present in the

MR-Series Features

Contaminant removal to the sub-micron level

■ISOPur[™]

Fluid Technologies, Inc.

Prevention and removal of sludge and varnish

Removal of oxide insolubles and biological contamination

Removal of ferrous and non-ferrous contamination

Efficient and highly effective water removal with coalescer option

Highest flow rates in the industry

Extends the life of antioxidant additives by removing products of oxidation

Treatable Fluids

Lubricating oil

Hydraulic oil

Phosphate ester

Machining oil

Diesel fuel

Vegetable oil

EDM fluid

Dielectric fluids

Turbine oil

Many other non-conducting fluids

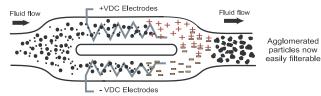
ISOPur MR-Series Fluid Purification

The ISOPur MR-Series is the smart purification solution for fluid flow rates in the 150 to 600 GPH (570 to ~2300 LPH) range. The MR-Series contains ISOPur's patented Balanced Charge Agglomeration (BCA[™]) technology, which maintains hydraulic and lubricating fluids in pristine condition and prevents/removes the buildup of sludge and varnish. BCA™ is paired with the intelligence of SmartPak[™], which automatically senses fluid condition and adjusts accordingly.

What is BCA™?

What is BCA[™]? Balanced Charge Agglomeration (BCA[™]) works by pumping non-conducting fluids past electrodes that ionize contamination particles equally positive (+) and negative (-). The oppositely charged particles are mixed, attract to each other, and grow in size. These agglomerated particles are then easily removed by traditional filtration methods.

BCA™ Process







Accuracy of recommendations is dependent on representative sample and complete, correct data on both unit and sample. This report is not an endorsement or recommendation of any product or system. QSA and VPR are registered servicemarks of Analysts, Inc. ©2005 ANALYSTS, INC. FORM No. 6080 02/05