

OIL ANALYSIS REPORT

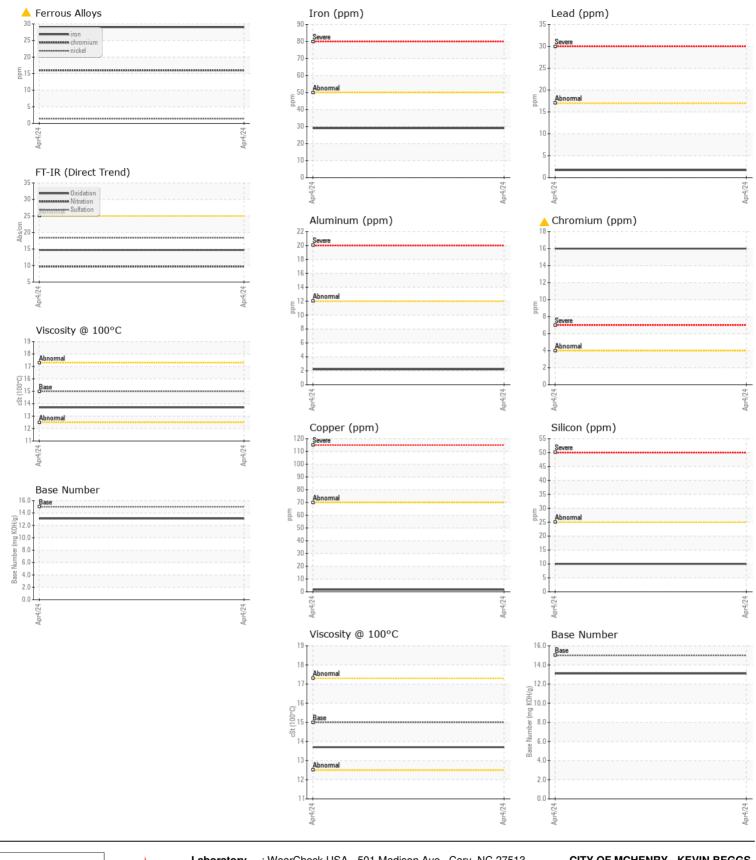
Machine Id EMPIRE EAST DARTMOOR LIFT Component Left Genset Fluid TRC PRO-SPEC IV HD 5W40 (6 QTS)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number	00111	Client Info	Ennerion	TR06148921		
No corrective action is recommended at this time. Resample at the	Sample Date		Client Info		04 Apr 2024		
next service interval to monitor.	Machine Age	hrs	Client Info		18539		
	Oil Age	hrs	Client Info		34		
	Filter Age	hrs	Client Info		34		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		Not Changd		
	Sample Status				ABNORMAL		
	·····						
WEAR	Iron	ppm	ASTM D5185m	>50	29		
The chromium level is abnormal. All other component wear rates are normal.	Chromium	ppm	ASTM D5185m	>4	1 6		
	Nickel	ppm	ASTM D5185m	>2	1		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m		2		
	Lead	ppm	ASTM D5185m		2		
	Copper	ppm	ASTM D5185m		2		
	Tin	ppm	ASTM D5185m	>15	0		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	10		
CONTAMINATION	Potassium	ppm	ASTM D5185m		<1		
There is no indication of any contamination in the oil.	Fuel	pp	WC Method		<1.0		
	Water		WC Method		NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844		0.2		
	Nitration	Abs/cm	*ASTM D7624	>20	9.7		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.4		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.1	NEG		
FLUID CONDITION	~ "				•		
	Sodium	ppm	ASTM D5185m		2		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		0		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		17		
	Manganese	ppm	ASTM D5185m		<1 290		
	Magnesium Calcium	ppm	ASTM D5185m ASTM D5185m	4500	280 3134		
	Phosphorus	ppm	ASTM D5185m	4000	823		
	Zinc	ppm	ASTM D5185m	1200	987		
	Sulfur	ppm ppm	ASTM D5185m	1200	3902		
	Oxidation	Abs/.1mm	*ASTM D5185111 *ASTM D7414	>25	3902 14.7		
	Base Number (BN)				14.7		
				15	10.10		

Visc @ 100°C cSt

ASTM D445 15

13.7



CITY OF MCHENRY - KEVIN BEGGS Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. Received 1415 INDUSTRIAL DR : TR06148921 : 15 Apr 2024 ř. Lab Number : 06148921 : 18 Apr 2024 MCHENRY, IL Tested : 18 Apr 2024 - Doug Bogart Unique Number : 10978999 US 60050 Diagnosed Test Package : MOB 2 Contact: JERRY MORTON Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-827-0711. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: F:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: JERRY MORTON - CITMCH Page 2 of 2