

OIL ANALYSIS REPORT

Machine Id GYROTRAC GYROTRAC Component Diesel Engine Fluid TRC MOLY XL PROSPEC III 15W40 (14 LTR)

RECOMMENDATION

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We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR02606986	TR02554021	
Sample Date		Client Info		08 Dec 2023	27 Feb 2023	
Machine Age	hrs	Client Info		1714	1625	
Oil Age	hrs	Client Info		635	450	
Filter Age	hrs	Client Info		635	450	
Oil Changed		Client Info		N/A	Not Changd	
Filter Changed		Client Info		N/A	Changed	
Sample Status				ABNORMAL	ABNORMAL	
PQ		ASTM D8184*		0	0	
Iron	ppm	ASTM D5185(m)	>100	▲ 169	▲ 165	
Chromium	ppm	ASTM D5185(m)	>20	4	4	
Nickel	ppm	ASTM D5185(m)	>4	2	2	
Titanium	ppm	ASTM D5185(m)		0	<1	
Silver	ppm	ASTM D5185(m)	>3	0	0	
Aluminum	ppm	ASTM D5185(m)	>20	7	7	
Lead	ppm	ASTM D5185(m)	>40	3	3	
Copper	ppm	ASTM D5185(m)	>330	10	11	
Tin	ppm	ASTM D5185(m)	>15	<1	<1	
Vanadium	ppm	ASTM D5185(m)		0	<1	
Silicon	ppm	ASTM D5185(m)	>25	9	9	
Potassium	ppm	ASTM D5185(m)	>20	1	2	
Fuel		WC Method	>5	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
Soot %	%	ASTM D7844*	>3	1.9	1.9	
Nitration	Abs/cm	ASTM D7624*	>20	16.1	15.9	
Sulfation	Abs/.1mm	ASTM D7415*	>30	27.8	27.8	
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	
Sodium	ppm	ASTM D5185(m)		4	4	
Boron	ppm	ASTM D5185(m)		35	35	
Barium	ppm	ASTM D5185(m)		0	0	
Molybdenum	ppm	ASTM D5185(m)		139	123	
Manganese	ppm	ASTM D5185(m)		1	2	
Magnesium	ppm	ASTM D5185(m)		57	62	
Calcium	ppm	ASTM D5185(m)	4500	4669	4801	
Phosphorus	ppm	ASTM D5185(m)		1108	1173	
Zinc	ppm	ASTM D5185(m)	1400	1313	1312	
Sulfur	ppm	ASTM D5185(m)		3671	3423	
Oxidation	Abs/.1mm	ASTM D7414*	>25	21.9	22.2	
Base Number (BN)	mg KOH/g	ASTM D2896*	15	14.09	12.33	
	cSt	ASTM D7270(m)	15.5	16.1	16.1	

ASTM D7279(m) 15.5

Visc @ 100°C cSt

WEAR

Iron ppm levels are abnormal. Cylinder, crank, or cam shaft wear is indicated.

CONTAMINATION

There is no indication of any contamination in the oil.

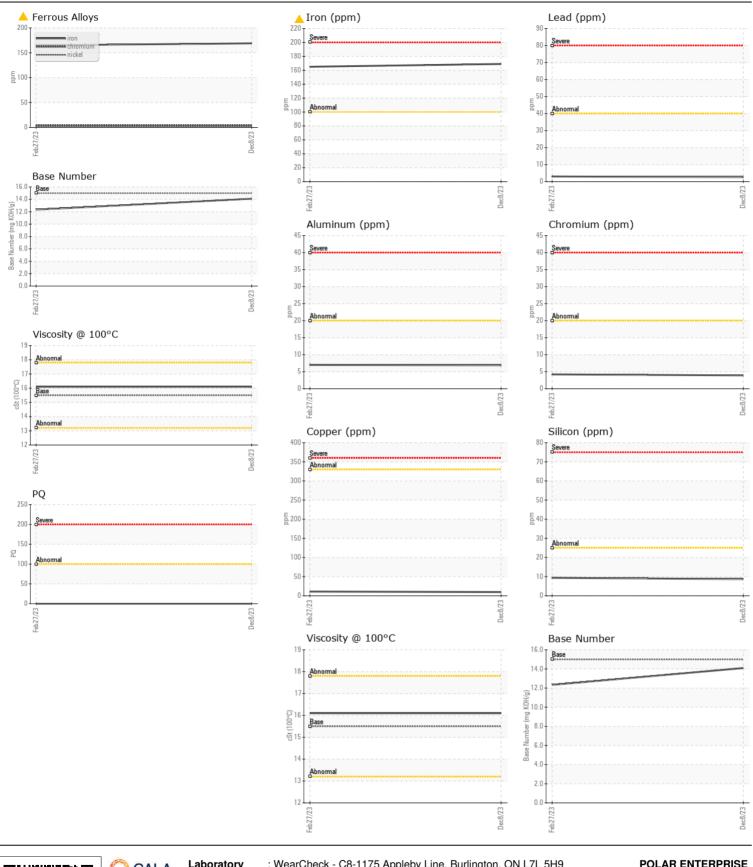
FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Contact/Location: Trevor Panych - POLHAD

16.1

16.1



POLAR ENTERPRISE Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CALA Sample No. Recieved : 08 Jan 2024 BOX 36, GRP 8 : TR02606986 Lab Number HADASHVILLE, MB : 02606986 Diagnosed : 09 Jan 2024 ISO 17025:2017 : 5708072 Diagnostician : Kevin Marson Accredited CA R0E 0X0 Unique Number Laboratory Test Package : MOB 2 (Additional Tests: PQ) Contact: Trevor Panych 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: (204)326-8683 F: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: Trevor Panych - POLHAD