

## WEAR ABNORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL



Machine Id **731111** Component **Natural Gas Engine** Fluid **RDL-3647 (--- GAL)** 

## RECOMMENDATION

Please note that all wear metal and contaminant levels are being considered accumulative. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please contact your representative for information regarding the proper sampling kits for your service. NOTE: We recommend using MOB 2 test kits, this testkit includes BN to determine the suitability of the oil for continued use.

## WEAR

Chromium ppm levels are abnormal. Ring wear is indicated.

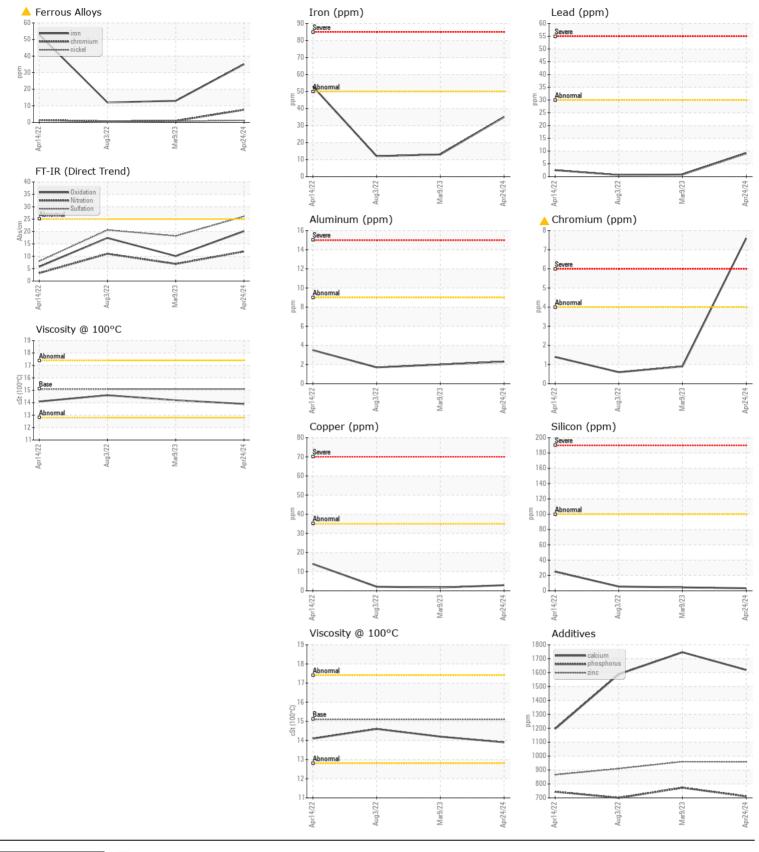
## CONTAMINATION

There is no indication of any contamination in the oil.

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The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0117130	GFL0071082	GFL0054864
Sample Date		Client Info		24 Apr 2024	09 Mar 2023	03 Aug 2022
Machine Age	hrs	Client Info		4468	2910	20227
Oil Age	hrs	Client Info		1200	1200	0
Filter Age	hrs	Client Info		1200	1200	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185(m)	>50	35	13	12
Chromium	ppm	ASTM D5185(m)	>4	<mark>  8</mark>	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	1	<1	<1
Titanium	ppm	ASTM D5185(m)		<1	<1	<1
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>9	2	2	2
Lead	ppm	ASTM D5185(m)	>30	9	<1	<1
Copper	ppm	ASTM D5185(m)	>35	3	2	2
Tin	ppm	ASTM D5185(m)	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE		
Yellow Metal	scalar	Visual*	NONE	NONE		
Silicon	ppm	ASTM D5185(m)	>+100	3	4	6
Potassium		ASTM D5185(m)	>20	1	2	1
Water	ppm	WC Method	>2.0	I NEG	NEG	NEG
Soot %	%	ASTM D7844*	>0.1	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	11.9	6.9	11.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	26.1	18.2	20.6
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	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	NEG
Sodium	ppm	ASTM D5185(m)		8	9	7
Boron	ppm	ASTM D5185(m)	50	8	9	12
Barium	ppm	ASTM D5185(m)	5	4	0	0
Molybdenum	ppm	ASTM D5185(m)	50	59	55	51
Manganese	ppm	ASTM D5185(m)	0	2	<1	1
Magnesium	ppm	ASTM D5185(m)	560	624	603	558
Calcium	ppm	ASTM D5185(m)	1510	1619	1746	1588
	nom	ASTM D5185(m)	780	711	773	700
Phosphorus	ppm					
Zinc	ppm	ASTM D5185(m)	870	959	960	910
Zinc Sulfur	ppm ppm	ASTM D5185(m) ASTM D5185(m)	2040	2039	2178	2075
Zinc	ppm	ASTM D5185(m)				



: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 209 - Hamilton Laboratory CALA ٥î Sample No. Received 560 Seaman Street : GFL0117130 : 26 Apr 2024 Lab Number : 02631498 Tested Stoney Creek, ON : 26 Apr 2024 ISO 17025:2017 Accredited Laboratory Unique Number : 5772651 : 26 Apr 2024 - Kevin Marson CA L8E 3X7 Diagnosed Test Package : MOB 1 (Additional Tests: Visual) Contact: Fred Carleton To discuss this sample report, contact Customer Service at 1-800-268-2131. fred.carleton@gflenv.com T: (289)925-6693 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. F: (905)664-9008 Validity of results and interpretation are based on the sample and information as supplied.