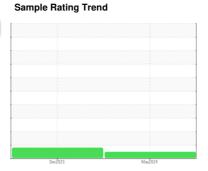


# **OIL ANALYSIS REPORT**







# **DIAGNOSIS**

#### Recommendation

Resample at the next service interval to monitor.

## Wear

All component wear rates are normal.

### Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the

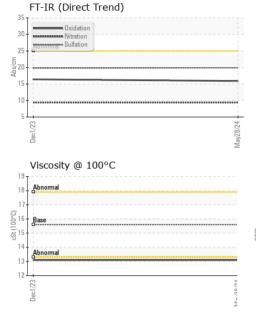
## **Fluid Condition**

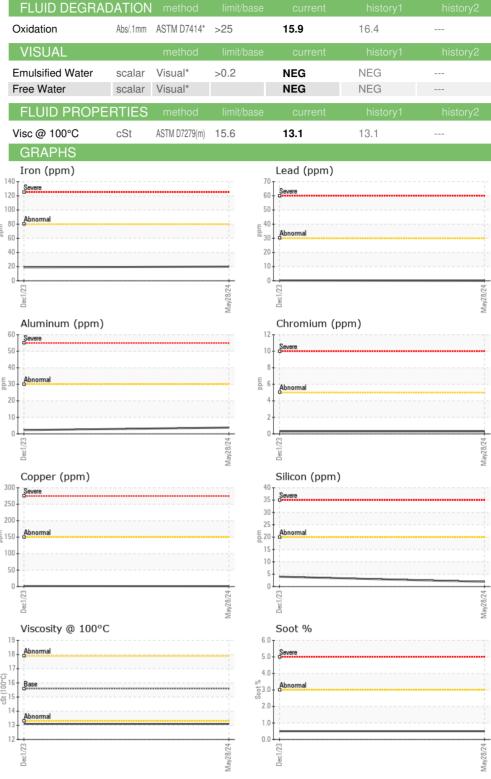
The condition of the oil is acceptable for the time in service.

ON SAE 15W40	(2292)		Dec2023	May2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0117120	GFL0097775	
Sample Date		Client Info		28 May 2024	01 Dec 2023	
Machine Age	hrs	Client Info		2783	2292	
Oil Age	hrs	Client Info		1200	1200	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	MARGINAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<u>2.4</u>	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>80	20	19	
Chromium	ppm	ASTM D5185(m)	>5	<1	<1	
Nickel	ppm	ASTM D5185(m)	>2	0	<1	
Titanium	ppm	ASTM D5185(m)		0	0	
Silver	ppm	ASTM D5185(m)	>3	0	0	
Aluminum	ppm	ASTM D5185(m)	>30	4	2	
Lead	ppm	ASTM D5185(m)	>30	0	<1	
Copper	ppm	ASTM D5185(m)	>150	<1	1	
Tin	ppm	ASTM D5185(m)	>5	0	0	
Antimony	ppm	ASTM D5185(m)		0	0	
Vanadium	ppm	ASTM D5185(m)		0	0	
Beryllium	ppm	ASTM D5185(m)		0	0	
Cadmium	ppm	ASTM D5185(m)		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	1	2	2	
Barium	ppm	ASTM D5185(m)	1	0	<1	
Molybdenum	ppm	ASTM D5185(m)	60	57	57	
Manganese	ppm	ASTM D5185(m)	1	<1	0	
Magnesium	ppm	ASTM D5185(m)	1010	922	926	
Calcium	ppm	ASTM D5185(m)	1070	1043	989	
Phosphorus	ppm	ASTM D5185(m)	1150	945	941	
Zinc	ppm	ASTM D5185(m)	1270	1148	1153	
Sulfur	ppm	ASTM D5185(m)	2060	2410	2399	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	2	4	
Sodium	ppm	ASTM D5185(m)		1	2	
Potassium	ppm	ASTM D5185(m)	>20	7	3	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.5	0.5	
Nitration	Abs/cm	ASTM D7624*	>20	9.4	9.4	
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.9	19.8	



## **OIL ANALYSIS REPORT**







CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number : 02639071 Unique Number : 5788233

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 209 - Hamilton : GFL0117120

To discuss this sample report, contact Customer Service at 1-800-268-2131.

Test Package : MOB 1

Received : 31 May 2024 **Tested** : 31 May 2024 Diagnosed

: 31 May 2024 - Wes Davis

560 Seaman Street Stoney Creek, ON CA L8E 3X7 Contact: Fred Carleton fred.carleton@gflenv.com T: (289)925-6693

F: (905)664-9008

Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.