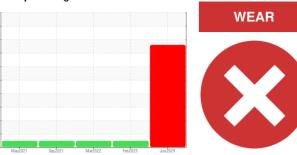


## **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

# TICO 824-8352

**Front Diesel Engine** 

**DIESEL ENGINE OIL SAE 15W40 (--- GAL)** 

## DIAGNOSIS

### Recommendation

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

#### 📤 Wear

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

## Contamination

Light concentration of carbon/soot present in the oil.

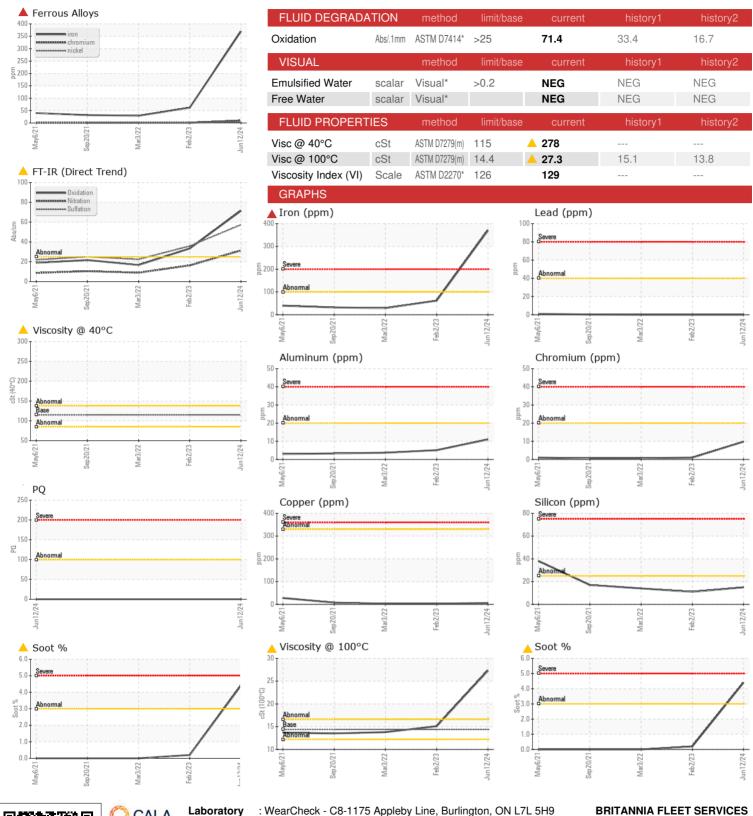
### Fluid Condition

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

		May2021	Sep 2021	Mar2022 Feb2023	Jun2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0683838	WC0776247	WC0636596
Sample Date		Client Info		12 Jun 2024	02 Feb 2023	03 Mar 2022
Machine Age	hrs	Client Info		9431	4682	2499
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				SEVERE	NORMAL	NORMAL
CONTAMINATION	١	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		0		
Iron	ppm	ASTM D5185(m)	>100	<b>370</b>	62	29
Chromium	ppm	ASTM D5185(m)	>20	10	1	<1
Nickel	ppm	ASTM D5185(m)	>4	2	<1	<1
Titanium	ppm	ASTM D5185(m)		<1	<1	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	11	5	4
Lead	ppm	ASTM D5185(m)	>40	0	0	0
Copper	ppm	ASTM D5185(m)	>330	6	3	3
Tin	ppm	ASTM D5185(m)	>15	<1	<1	<1
Antimony	ppm	ASTM D5185(m)		0	<1	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	250	14	4	25
Barium	ppm	ASTM D5185(m)	10	<1	0	<1
Molybdenum	ppm	ASTM D5185(m)	100	72	15	89
Manganese	ppm	ASTM D5185(m)		4	1	1
Magnesium	ppm	ASTM D5185(m)	450	25	15	26
Calcium	ppm	ASTM D5185(m)	3000	2305	2380	2276
Phosphorus	ppm	ASTM D5185(m)	1150	917	885	1012
Zinc	ppm	ASTM D5185(m)	1350	1206	1047	1151
Sulfur	ppm	ASTM D5185(m)	4250	2667	2812	3163
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	15	11	14
Sodium	ppm	ASTM D5185(m)	>158	4	3	3
Potassium	ppm	ASTM D5185(m)	>20	4	2	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	<b>4.4</b>	0.2	0
Nitration	Abs/cm	ASTM D7624*	>20	31.4	16.3	8.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	57.3	35.8	22.4



## **OIL ANALYSIS REPORT**





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

Lab Number : 02643113 Unique Number : 5800652

: WC0683838 Received

: 20 Jun 2024 **Tested** : 20 Jun 2024 Diagnosed : 20 Jun 2024 - Kevin Marson

Test Package : MOB 1 ( Additional Tests: KV40, PQ, VI ) To discuss this sample report, contact Customer Service at 1-800-268-2131.

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.

1831 SHAWSON DRIVE (SHOP) MISSISSAUGA, ON **CA L4W 1T9** 

Contact: Tania Henriques tania.henriques@britanniafleet.ca

T: (905)670-4545 F: (905)670-9036