

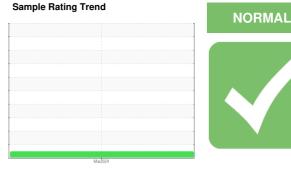
**OIL ANALYSIS REPORT** 

NO UNIT PC0085018

Component

Diesel Engine

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



## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

Metal levels are typical for a components first oil change.

### Contamination

There is no indication of any contamination in the

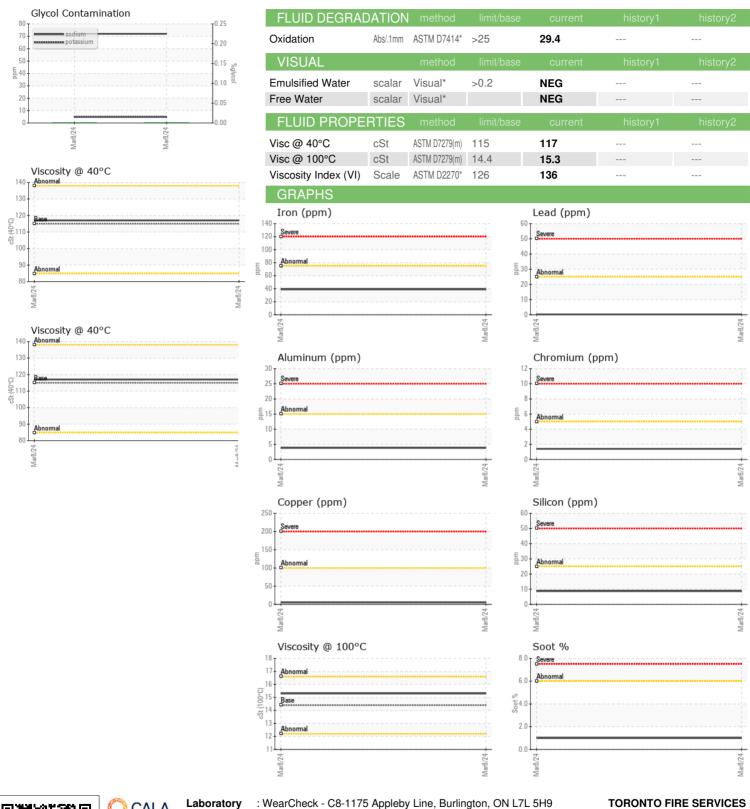
### **Fluid Condition**

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

				Mar2024		
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PC0085018		
Sample Date		Client Info		08 Mar 2024		
Machine Age	mths	Client Info		6		
Oil Age	mths	Client Info		6		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINA	TION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0		
Water		WC Method	>0.2	NEG		
WEAR METAI	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>75	39		
Chromium	ppm	ASTM D5185(m)	>5	1		
Nickel	ppm	ASTM D5185(m)	>4	<1		
Titanium	ppm	ASTM D5185(m)	>2	0		
Silver	ppm	ASTM D5185(m)	>2	0		
Aluminum	ppm	ASTM D5185(m)	>15	4		
Lead	ppm	ASTM D5185(m)	>25	<1		
Copper	ppm	ASTM D5185(m)	>100	5		
Tin	ppm	ASTM D5185(m)	>4	0		
Antimony	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	250	3		
Barium	ppm	ASTM D5185(m)	10	0		
Molybdenum	ppm	ASTM D5185(m)	100	64		
Manganese	ppm	ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m)	450	994		
Calcium	ppm	ASTM D5185(m)	3000	1077		
Phosphorus	ppm	ASTM D5185(m)	1150	993		
Zinc	ppm	ASTM D5185(m)	1350	1210		
Sulfur	ppm	ASTM D5185(m)	4250	2402		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	9		
Sodium	ppm	ASTM D5185(m)	>158	72		
Potassium	ppm	ASTM D5185(m)	>20	5		
Glycol	%	ASTM D7922*		0.0		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	1		
Nitration	Abs/cm	ASTM D7624*	>20	13.9		
Sulfation	Abs/.1mm	ASTM D7415*	>30	29.0		



# **OIL ANALYSIS REPORT**





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number

Unique Number : 5749695

: PC0085018 : 02624576

Received **Tested** 

: 26 Mar 2024 Diagnosed

: 26 Mar 2024

: 26 Mar 2024 - Kevin Marson

Test Package: MOB 1 (Additional Tests: Glycol, KV40, 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.

**TORONTO FIRE SERVICES** 

40 TORYORK DRIVE TORONTO, ON CA M9L 1X6

Contact: Antonio Rodrigues antonio.rodrigues@toronto.ca

T:

F: (416)338-9207