



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area  
**55000 Series**  
 Machine Id  
**Freightliner 55008**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 15W40 (40 LTR)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0854812</b>	WC0879111	WC0864010
Sample Date		Client Info		<b>27 Dec 2023</b>	23 Nov 2023	24 Oct 2023
Machine Age	mls	Client Info		<b>958640</b>	949872	942063
Oil Age	mls	Client Info		<b>0</b>	0	13615
Filter Age	mls	Client Info		<b>0</b>	0	13615
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	MARGINAL	ABNORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>200	<b>18</b>	27	41
Chromium	ppm	ASTM D5185(m)	>10	<b>1</b>	2	2
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>30	<b>3</b>	4	2
Lead	ppm	ASTM D5185(m)	>30	<b>1</b>	2	2
Copper	ppm	ASTM D5185(m)	>30	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185(m)	>4	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

## CONTAMINATION

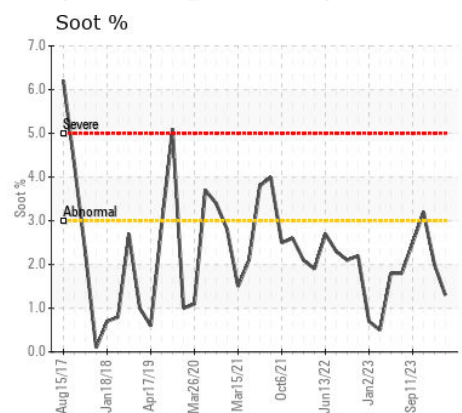
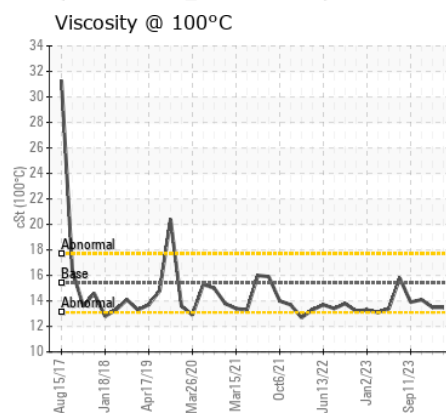
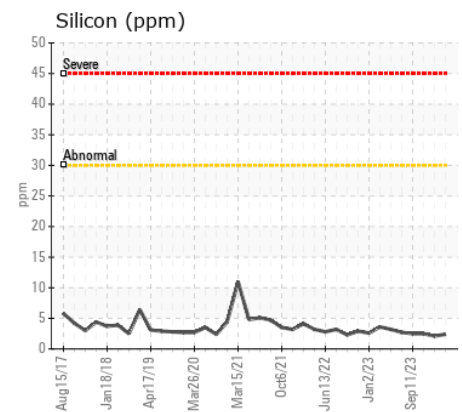
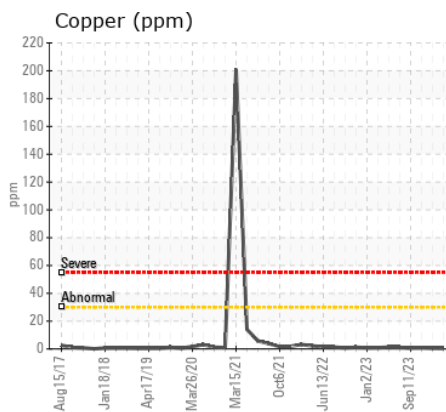
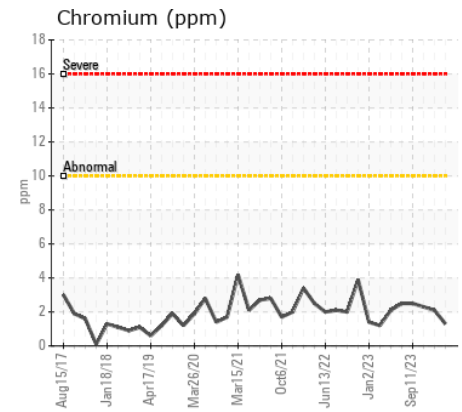
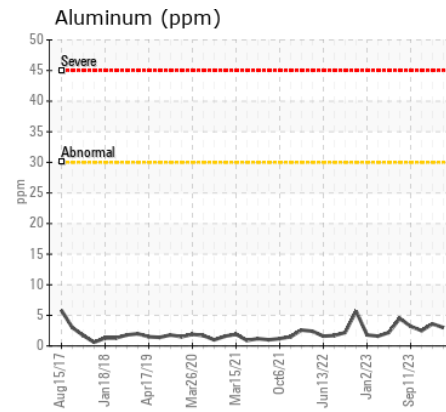
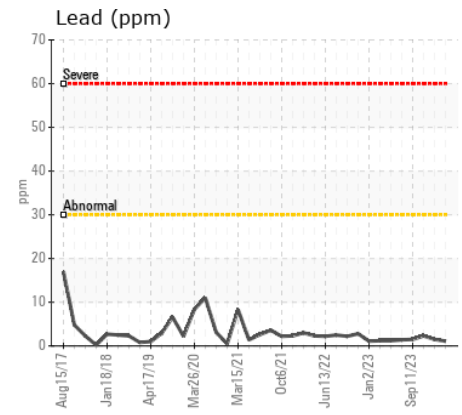
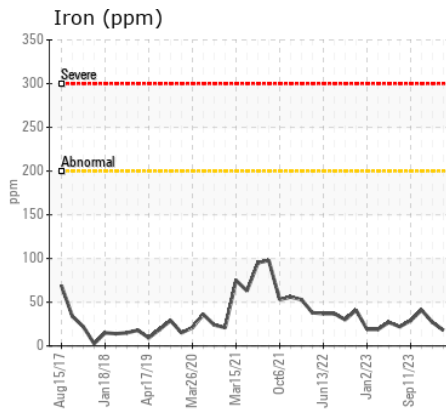
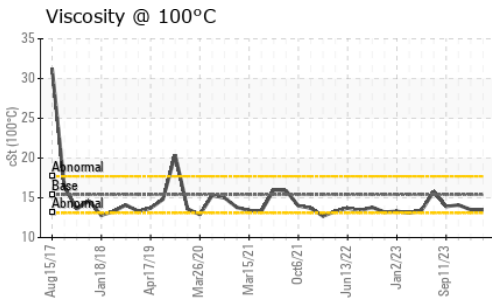
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>30	<b>2</b>	2	2
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	<1	0
Fuel		WC Method	>3.0	<b>&lt;1.0</b>	▲ 2	▲ 3
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	ASTM D7844*	>3	<b>1.3</b>	2	▲ 3.2
Nitration	Abs/cm	ASTM D7624*	>20	<b>6.9</b>	7.6	8.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>20.5</b>	21.5	24.7
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		<b>56</b>	66	6
Boron	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	2
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	60	<b>58</b>	61	64
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)	1010	<b>962</b>	986	1051
Calcium	ppm	ASTM D5185(m)	1070	<b>1065</b>	1083	1127
Phosphorus	ppm	ASTM D5185(m)	1150	<b>1001</b>	991	1057
Zinc	ppm	ASTM D5185(m)	1270	<b>1156</b>	1195	1276
Sulfur	ppm	ASTM D5185(m)	2060	<b>2655</b>	2496	2647
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>13.7</b>	13.9	14.9
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>13.5</b>	13.5	14.1



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0854812 **Received** : 18 Jan 2024  
**Lab Number** : 02609642 **Diagnosed** : 18 Jan 2024  
**Unique Number** : 5710728 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1

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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.