



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
52000 series
 Machine Id
Freightliner 52858
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (38 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0892033	WC0844386	WC0785883
Sample Date		Client Info		08 Jan 2024	10 Aug 2023	14 Mar 2023
Machine Age	mls	Client Info		541725	304523	266941
Oil Age	mls	Client Info		0	37582	31242
Filter Age	mls	Client Info		0	37582	31242
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>80	25	22	18
Chromium	ppm	ASTM D5185(m)	>5	2	2	1
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	<1	<1
Silver	ppm	ASTM D5185(m)	>3	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>30	16	13	10
Lead	ppm	ASTM D5185(m)	>30	0	<1	0
Copper	ppm	ASTM D5185(m)	>150	7	9	10
Tin	ppm	ASTM D5185(m)	>5	<1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

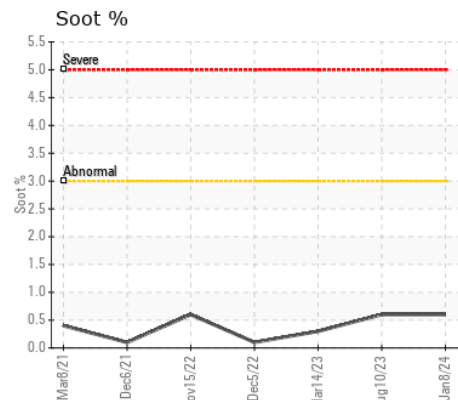
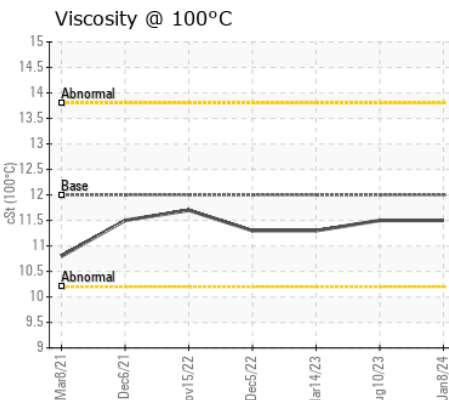
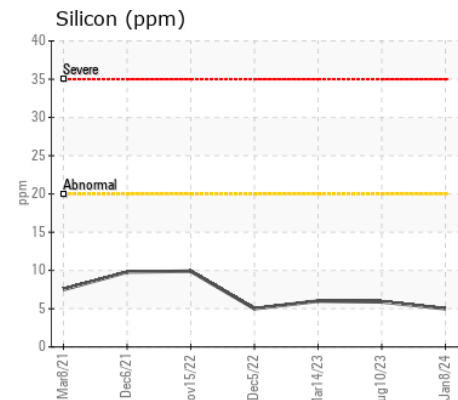
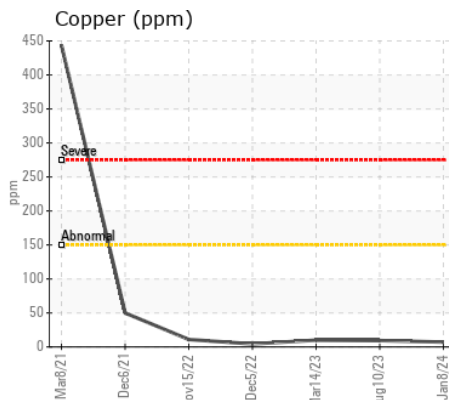
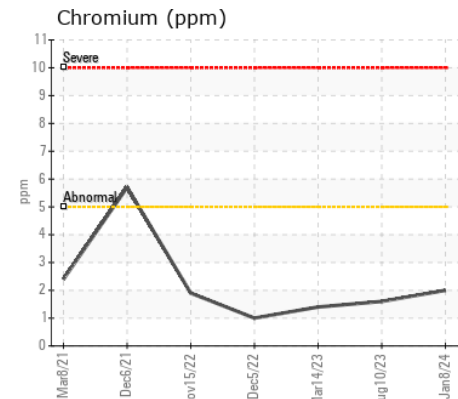
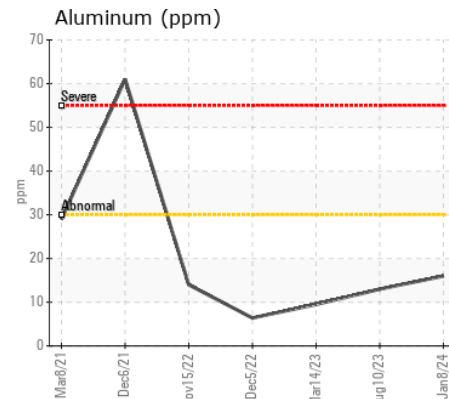
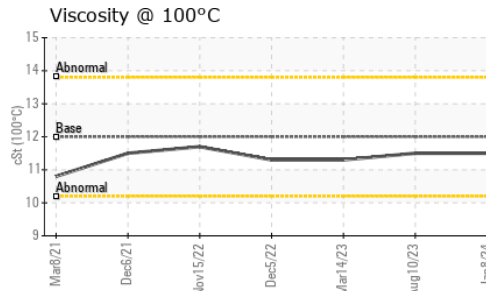
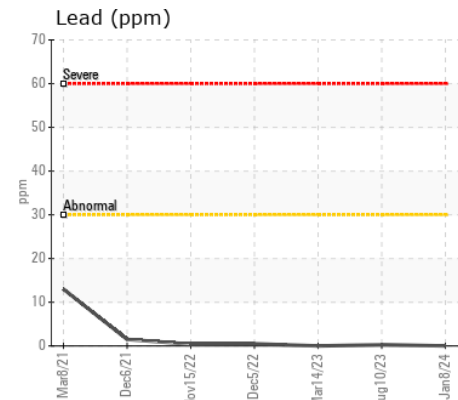
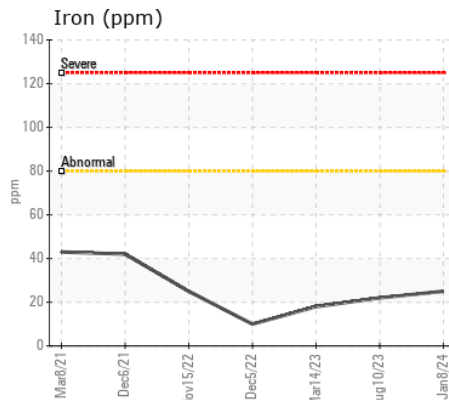
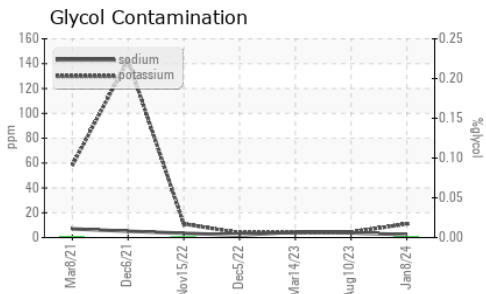
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	5	6	6
Potassium	ppm	ASTM D5185(m)	>20	11	4	4
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*		0.0	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.6	0.6	0.3
Nitration	Abs/cm	ASTM D7624*	>20	9.3	8.9	9.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.8	22.2	22.9
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		2	4	4
Boron	ppm	ASTM D5185(m)	2	2	3	5
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	50	60	62	60
Manganese	ppm	ASTM D5185(m)	0	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	950	949	985	947
Calcium	ppm	ASTM D5185(m)	1050	1073	1060	1152
Phosphorus	ppm	ASTM D5185(m)	995	947	1014	1033
Zinc	ppm	ASTM D5185(m)	1180	1152	1194	1216
Sulfur	ppm	ASTM D5185(m)	2600	2507	2226	2453
Oxidation	Abs/.1mm	ASTM D7414*	>25	16.4	16.5	16.5
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	11.5	11.5	11.3



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0892033 **Received** : 18 Jan 2024
Lab Number : 02609655 **Diagnosed** : 18 Jan 2024
Unique Number : 5710741 **Diagnostician** : Wes Davis
Test Package : MOB 1 (Additional Tests: Glycol)

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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.