



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
50000 Series
 Machine Id
Freightliner 50142
 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		WC0854792	WC0785942	WC0753943
Sample Date		Client Info		23 Dec 2023	05 Mar 2023	11 Nov 2022
Machine Age	mls	Client Info		606145	584825	892804
Oil Age	mls	Client Info		39320	29953	27014
Filter Age	mls	Client Info		39320	29953	27014
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)	>65	19	27	17
Chromium	ppm	ASTM D5185(m)	>5	2	2	1
Nickel	ppm	ASTM D5185(m)	>3	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>5	0	<1	<1
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>35	11	19	9
Lead	ppm	ASTM D5185(m)	>10	0	0	<1
Copper	ppm	ASTM D5185(m)	>180	2	7	4
Tin	ppm	ASTM D5185(m)	>8	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

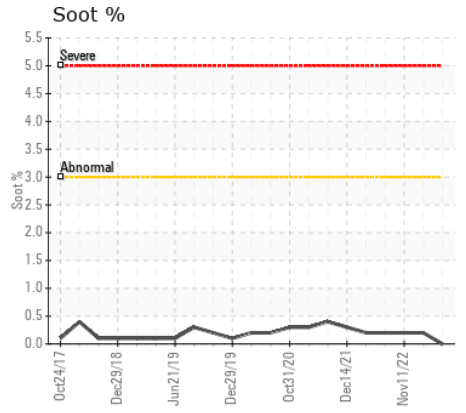
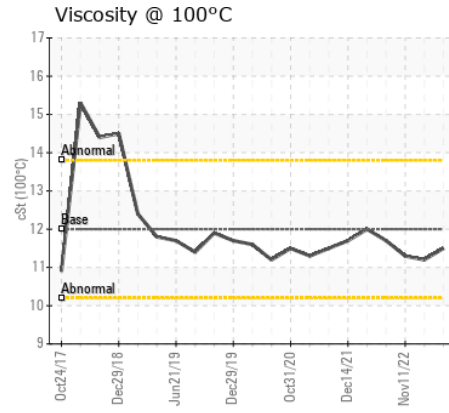
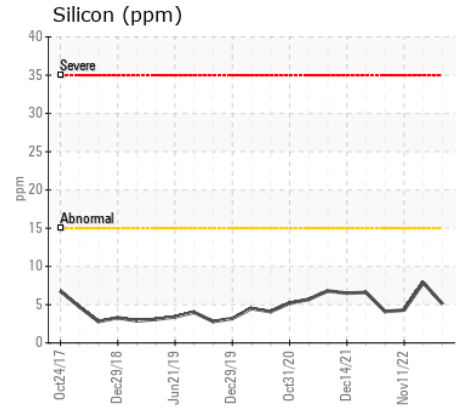
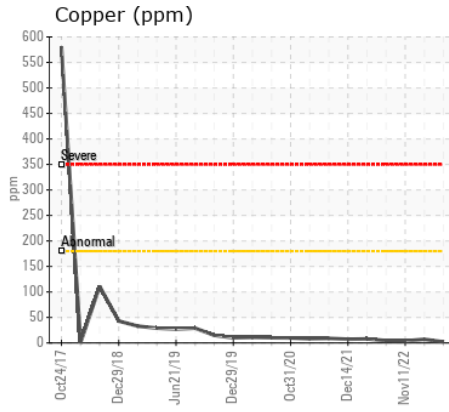
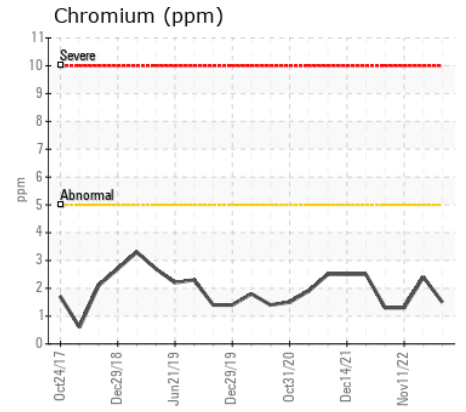
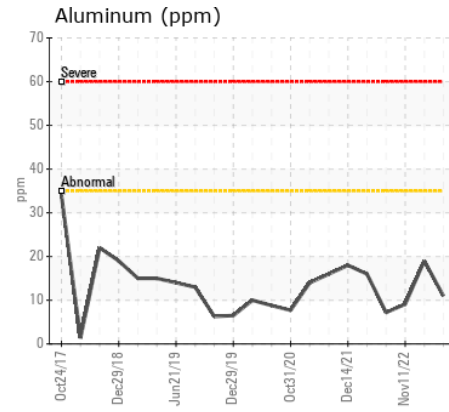
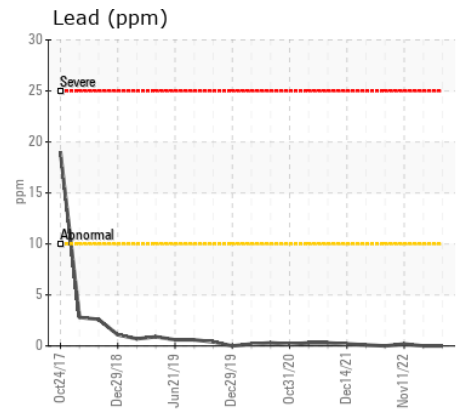
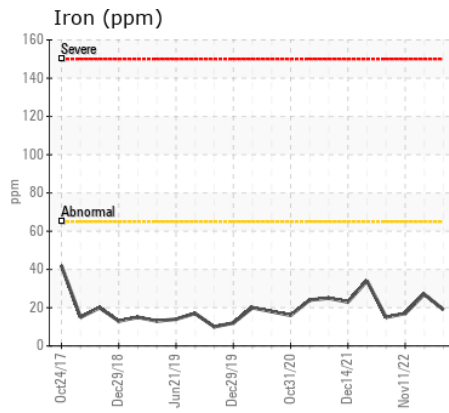
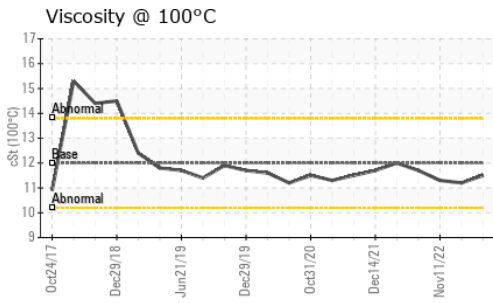
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>15	5	8	4
Potassium	ppm	ASTM D5185(m)	>20	2	2	2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0	0.2	0.2
Nitration	Abs/cm	ASTM D7624*	>20	5.7	9.1	8.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.0	22.8	20.6
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)		4	9	3
Boron	ppm	ASTM D5185(m)	2	4	6	4
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	50	58	64	59
Manganese	ppm	ASTM D5185(m)	0	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	950	947	977	962
Calcium	ppm	ASTM D5185(m)	1050	1055	1152	1146
Phosphorus	ppm	ASTM D5185(m)	995	1007	1056	1059
Zinc	ppm	ASTM D5185(m)	1180	1153	1205	1214
Sulfur	ppm	ASTM D5185(m)	2600	2750	2363	2530
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.6	17.0	15.9
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	11.5	11.2	11.3



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0854792 **Received** : 18 Jan 2024
Lab Number : 02609635 **Diagnosed** : 18 Jan 2024
Unique Number : 5710721 **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.