



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
52000 series
 Machine Id
Freightliner 52579
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (40 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0893716	WC0805684	WC0736087
Sample Date		Client Info		16 Mar 2024	17 Jun 2023	28 Aug 2022
Machine Age	mls	Client Info		439042	408361	374625
Oil Age	mls	Client Info		30681	33735	26504
Filter Age	mls	Client Info		30681	33735	26504
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)	>200	43	36	26
Chromium	ppm	ASTM D5185(m)	>20	2	2	1
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	<1	<1
Silver	ppm	ASTM D5185(m)	>2	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>30	21	18	12
Lead	ppm	ASTM D5185(m)	>30	0	<1	0
Copper	ppm	ASTM D5185(m)	>30	11	7	6
Tin	ppm	ASTM D5185(m)	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

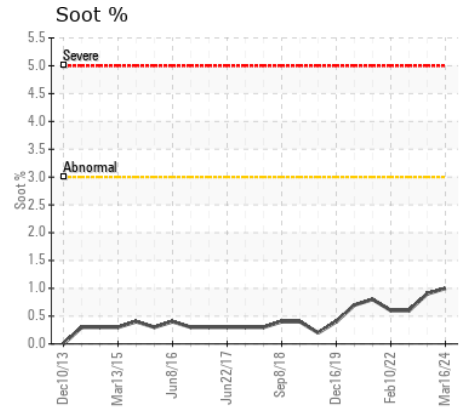
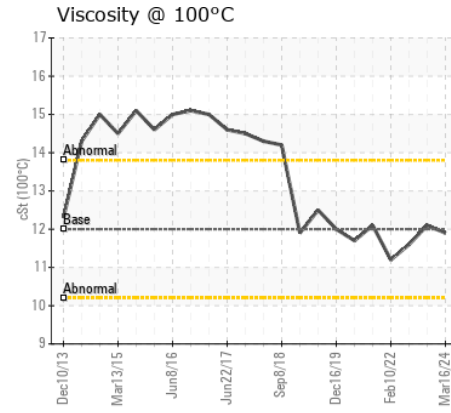
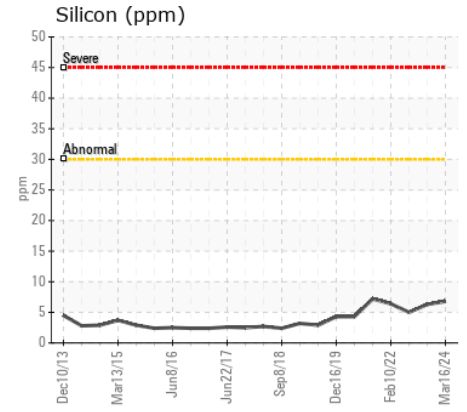
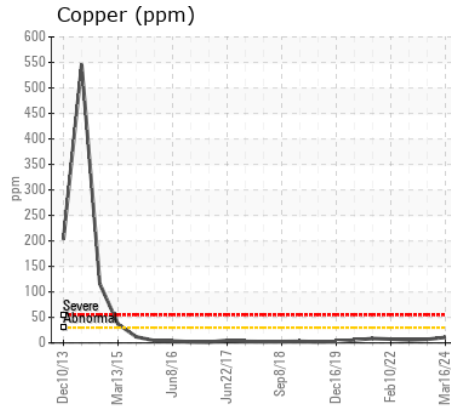
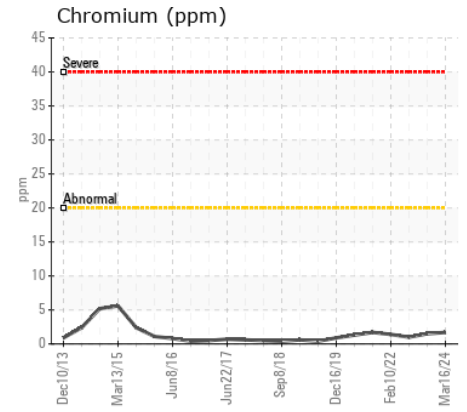
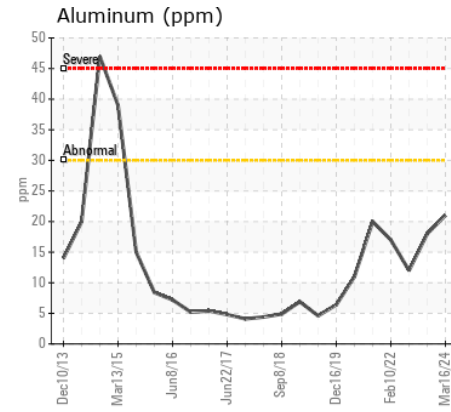
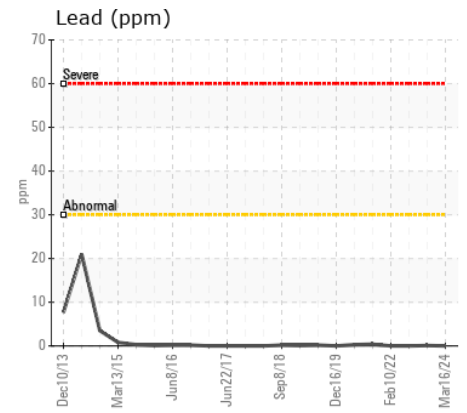
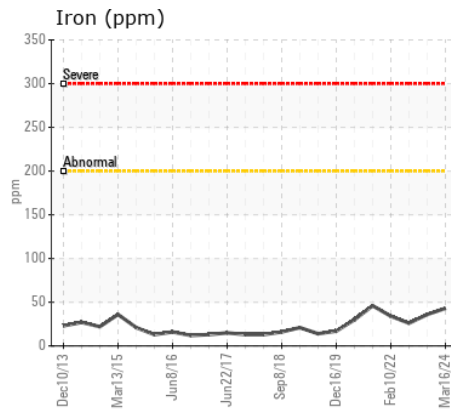
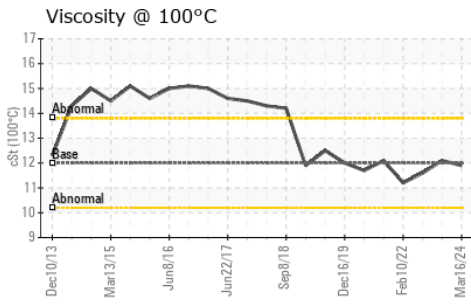
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>30	7	6	5
Potassium	ppm	ASTM D5185(m)	>20	2	2	1
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	1	0.9	0.6
Nitration	Abs/cm	ASTM D7624*	>20	10.3	10.8	9.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.7	23.5	21.7
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)		6	6	5
Boron	ppm	ASTM D5185(m)	2	2	3	7
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	50	60	61	62
Manganese	ppm	ASTM D5185(m)	0	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	950	954	991	949
Calcium	ppm	ASTM D5185(m)	1050	1053	1078	1159
Phosphorus	ppm	ASTM D5185(m)	995	956	1039	1076
Zinc	ppm	ASTM D5185(m)	1180	1190	1209	1233
Sulfur	ppm	ASTM D5185(m)	2600	2057	2172	2407
Oxidation	Abs/.1mm	ASTM D7414*	>25	19.9	19.9	17.5
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	11.9	12.1	11.6



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0893716 **Received** : 01 Apr 2024
Lab Number : 02625536 **Tested** : 01 Apr 2024
Unique Number : 5750655 **Diagnosed** : 01 Apr 2024 - 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.