



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
FREIGHTLINER 96
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (18 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0083924	PC0069215	PC0059275
Sample Date		Client Info		18 Mar 2024	23 Jan 2023	03 Aug 2022
Machine Age	kms	Client Info		472964	428114	402874
Oil Age	kms	Client Info		19134	25240	30866
Filter Age	kms	Client Info		19134	25240	30866
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)	>130	23	23	37
Chromium	ppm	ASTM D5185(m)	>10	<1	<1	3
Nickel	ppm	ASTM D5185(m)	>4	0	0	0
Titanium	ppm	ASTM D5185(m)	>2	0	<1	<1
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	2	2	3
Lead	ppm	ASTM D5185(m)	>20	0	0	0
Copper	ppm	ASTM D5185(m)	>125	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>4	0	<1	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

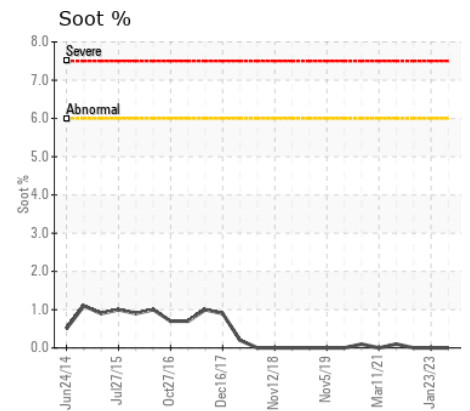
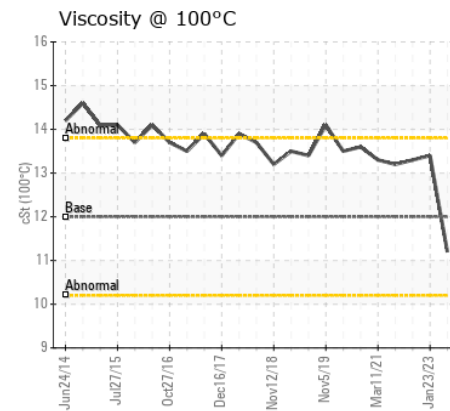
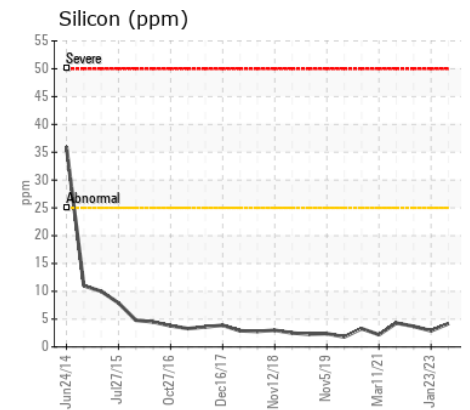
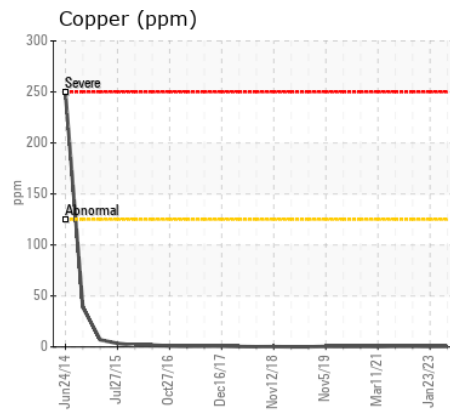
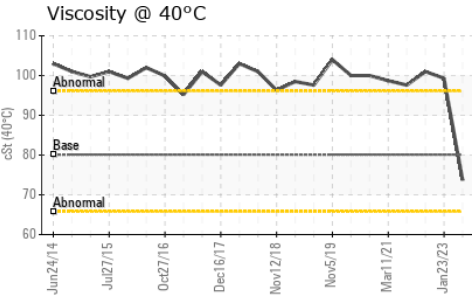
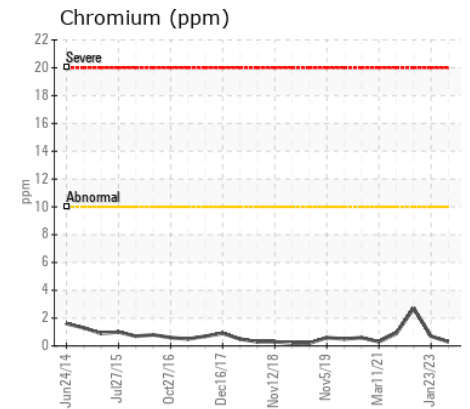
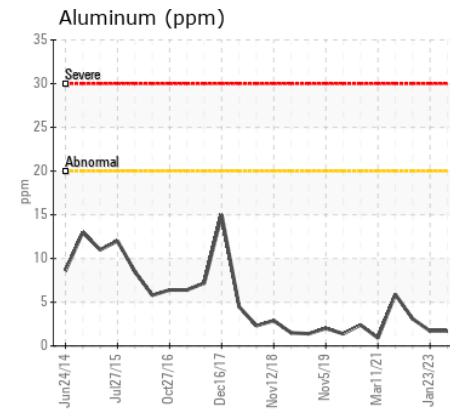
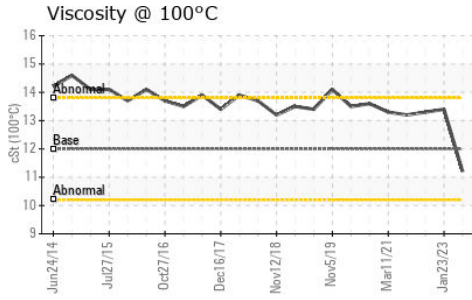
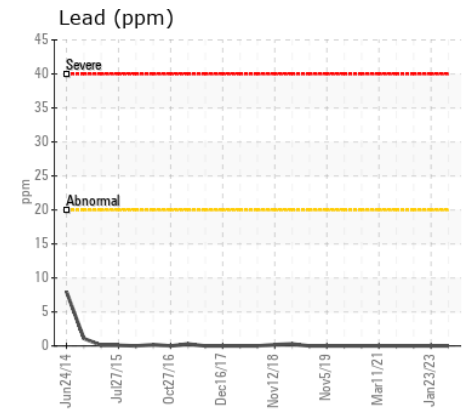
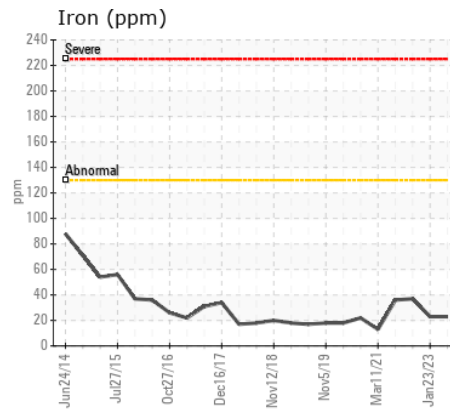
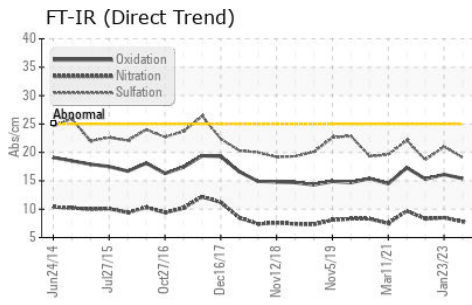
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	4	3	4
Potassium	ppm	ASTM D5185(m)	>20	2	2	3
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*	>6	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	7.8	8.5	8.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.1	21.0	18.7
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)		2	2	3
Boron	ppm	ASTM D5185(m)	2	2	6	3
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	50	60	63	65
Manganese	ppm	ASTM D5185(m)	0	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	950	1000	1003	1078
Calcium	ppm	ASTM D5185(m)	1050	1093	1161	1181
Phosphorus	ppm	ASTM D5185(m)	995	1000	1080	1091
Zinc	ppm	ASTM D5185(m)	1180	1245	1248	1345
Sulfur	ppm	ASTM D5185(m)	2600	2384	2521	2500
Oxidation	Abs/.1mm	ASTM D7414*	>25	15.4	16.1	15.3
Visc @ 40°C	cSt	ASTM D7279(m)	80.1	73.7	99.3	101
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	11.2	13.4	13.3
Viscosity Index (VI)	Scale	ASTM D2270*	144	143	134	129



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0083924
Lab Number : 02626841
Unique Number : 5759973
Test Package : MOB 1 (Additional Tests: KV40, VI)

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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.