



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
FREIGHTLINER 124
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 10W30 (24 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0083430	PC0081960	PC0071663
Sample Date		Client Info		25 May 2024	24 Nov 2023	14 Jun 2023
Machine Age	kms	Client Info		534236	497986	465573
Oil Age	kms	Client Info		36268	32413	39992
Filter Age	kms	Client Info		36268	32413	39992
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	MARGINAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>90	47	64	70
Chromium	ppm	ASTM D5185(m)	>20	1	2	3
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	1
Titanium	ppm	ASTM D5185(m)	>2	0	0	<1
Silver	ppm	ASTM D5185(m)	>2	<1	0	0
Aluminum	ppm	ASTM D5185(m)	>20	5	7	6
Lead	ppm	ASTM D5185(m)	>40	0	0	0
Copper	ppm	ASTM D5185(m)	>330	2	2	3
Tin	ppm	ASTM D5185(m)	>15	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	<1
White Metal	scalar	Visual*	NONE	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---

CONTAMINATION

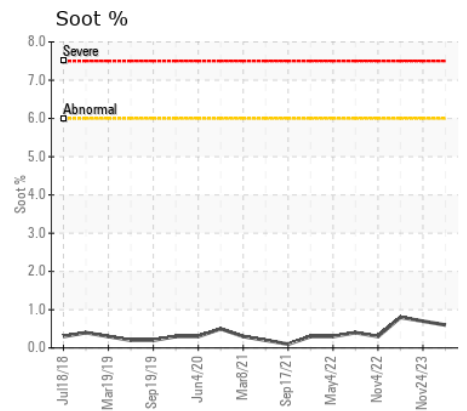
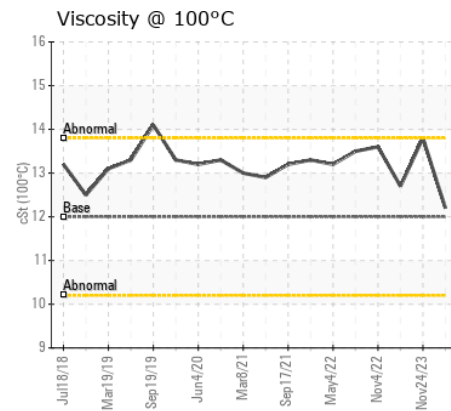
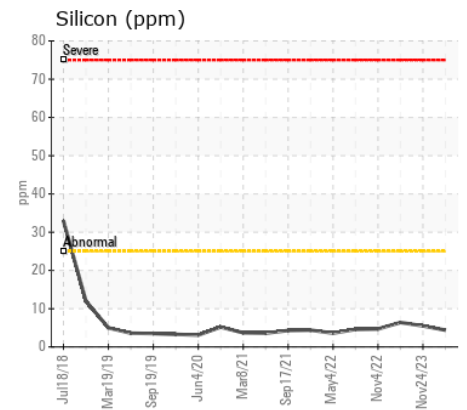
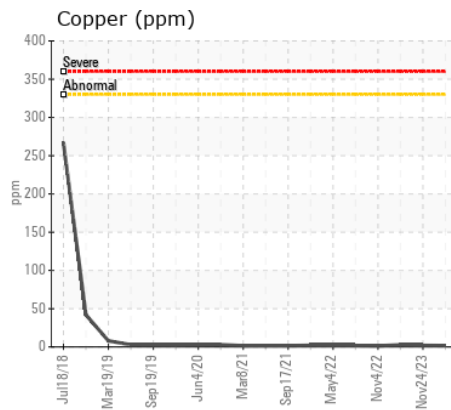
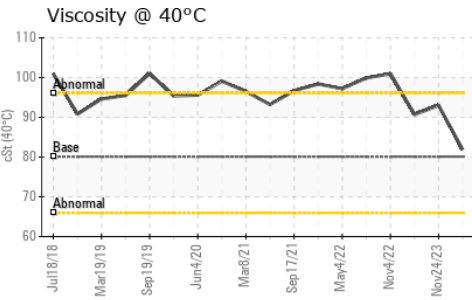
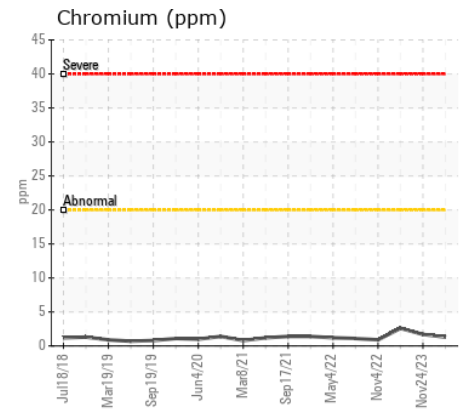
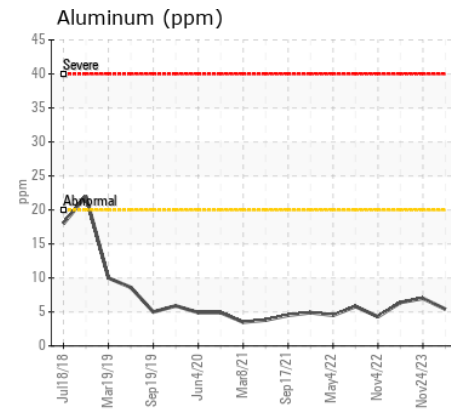
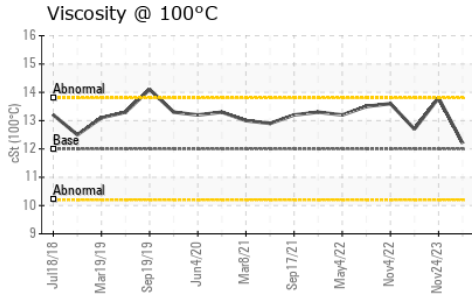
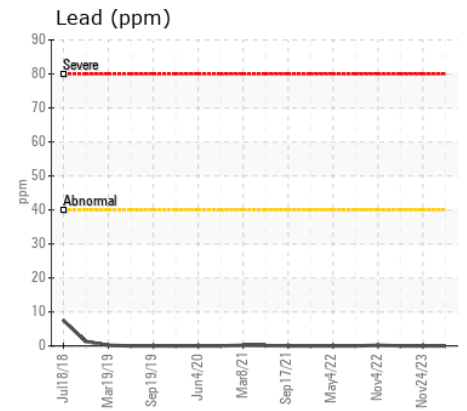
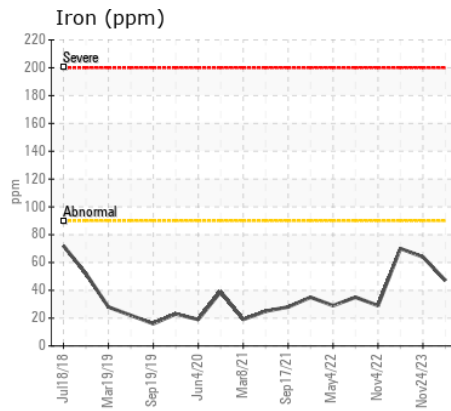
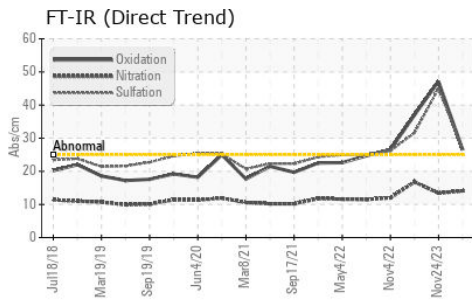
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	4	6	6
Potassium	ppm	ASTM D5185(m)	>20	5	0	4
Fuel		WC Method	>3.0	<1.0	▲ 2.6	▲ 3.6
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>6	0.6	0.7	0.8
Nitration	Abs/cm	ASTM D7624*	>20	14.1	13.4	16.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	26.7	45.0	31.6
Silt	scalar	Visual*	NONE	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	VLITE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
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)		5	7	6
Boron	ppm	ASTM D5185(m)	2	4	25	2
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	50	60	47	59
Manganese	ppm	ASTM D5185(m)	0	<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	950	946	758	913
Calcium	ppm	ASTM D5185(m)	1050	1064	857	1049
Phosphorus	ppm	ASTM D5185(m)	995	958	853	1009
Zinc	ppm	ASTM D5185(m)	1180	1198	948	1179
Sulfur	ppm	ASTM D5185(m)	2600	2293	2277	2269
Oxidation	Abs/.1mm	ASTM D7414*	>25	26.5	47.1	37.0
Visc @ 40°C	cSt	ASTM D7279(m)	80.1	81.9	93.0	90.7
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	12.2	13.8	12.7
Viscosity Index (VI)	Scale	ASTM D2270*	144	144	151	136



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0083430
Lab Number : 02643709
Unique Number : 5801248
Test Package : MOB 1 (Additional Tests: KV40, VI, Visual)

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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.