



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
FREIGHTLINER 340
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 10W30 (10 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LW0009414	LW0008967	---
Sample Date		Client Info		17 Jun 2024	30 Apr 2024	---
Machine Age	mls	Client Info		176396	130413	---
Oil Age	mls	Client Info		45983	50000	---
Filter Age	mls	Client Info		45983	25000	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>80	60	40	---
Chromium	ppm	ASTM D5185m	>5	3	<1	---
Nickel	ppm	ASTM D5185m	>2	<1	0	---
Titanium	ppm	ASTM D5185m		<1	0	---
Silver	ppm	ASTM D5185m	>3	0	0	---
Aluminum	ppm	ASTM D5185m	>30	16	27	---
Lead	ppm	ASTM D5185m	>30	0	0	---
Copper	ppm	ASTM D5185m	>150	39	133	---
Tin	ppm	ASTM D5185m	>5	0	0	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

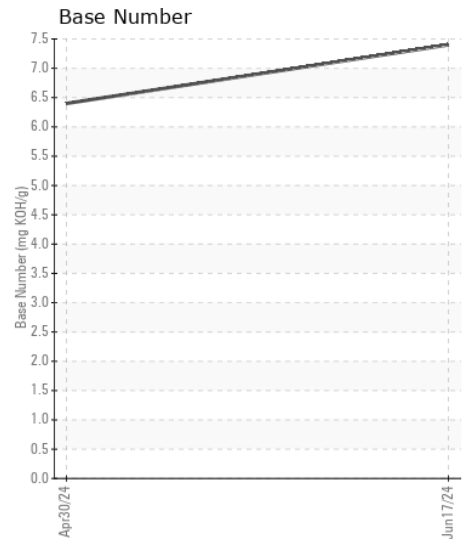
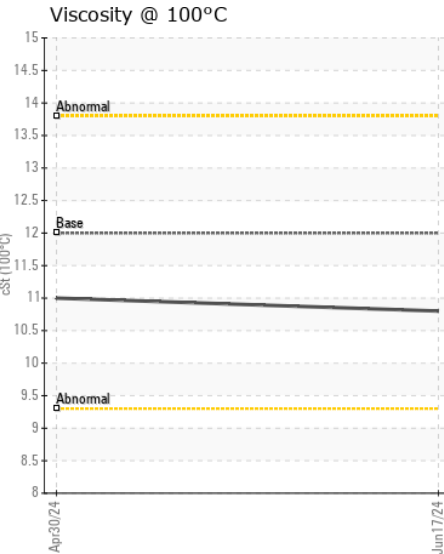
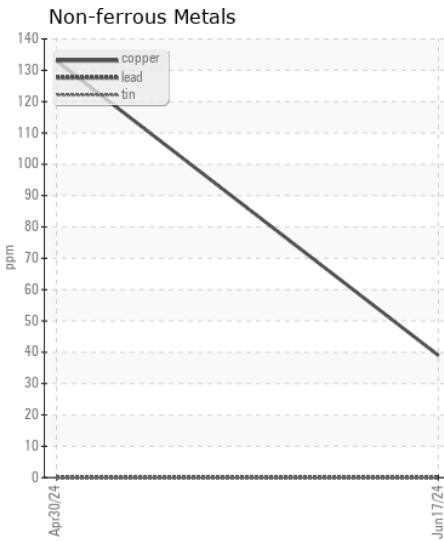
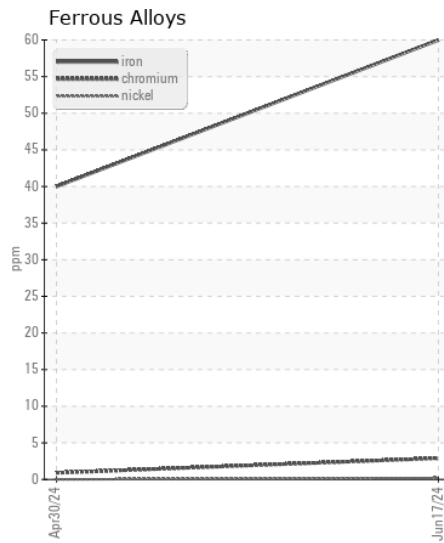
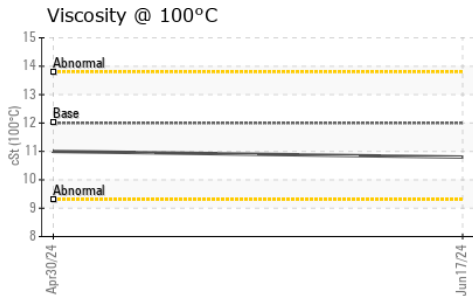
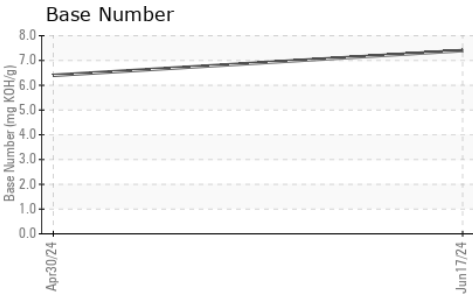
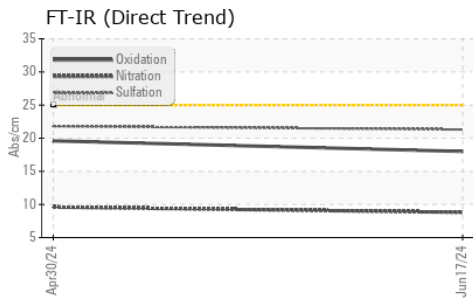
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	10	9	---
Potassium	ppm	ASTM D5185m	>20	38	60	---
Fuel		WC Method	>5	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.7	1	---
Nitration	Abs/cm	*ASTM D7624	>20	8.8	9.6	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.3	21.8	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	---

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		5	4	---
Boron	ppm	ASTM D5185m	2	3	4	---
Barium	ppm	ASTM D5185m	0	<1	0	---
Molybdenum	ppm	ASTM D5185m	50	63	65	---
Manganese	ppm	ASTM D5185m	0	1	0	---
Magnesium	ppm	ASTM D5185m	950	1083	962	---
Calcium	ppm	ASTM D5185m	1050	1262	1209	---
Phosphorus	ppm	ASTM D5185m	995	1059	977	---
Zinc	ppm	ASTM D5185m	1180	1402	1238	---
Sulfur	ppm	ASTM D5185m	2600	2879	2203	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.0	19.6	---
Base Number (BN)	mg KOH/g	ASTM D2896		7.4	6.4	---
Visc @ 100°C	cSt	ASTM D445	12.00	10.8	11.0	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LW0009414
Lab Number : 06217912
Unique Number : 11096109
Test Package : FLEET
Received : 24 Jun 2024
Tested : 25 Jun 2024
Diagnosed : 25 Jun 2024 - Wes Davis

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To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)