



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
FREIGHTLINER M0625
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 40 (28 QTS)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample
Comment: Hours=1126)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		IL0033818	IL0030511	---
Sample Date		Client Info		16 Apr 2024	07 Nov 2023	---
Machine Age	hrs	Client Info		1126	680	---
Oil Age	hrs	Client Info		1126	0	---
Filter Age	hrs	Client Info		1126	0	---
Oil Changed		Client Info		Changed	N/A	---
Filter Changed		Client Info		Changed	N/A	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>80	15	8	---
Chromium	ppm	ASTM D5185m	>5	<1	0	---
Nickel	ppm	ASTM D5185m	>2	0	0	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m	>3	0	0	---
Aluminum	ppm	ASTM D5185m	>30	8	4	---
Lead	ppm	ASTM D5185m	>30	0	0	---
Copper	ppm	ASTM D5185m	>150	1	1	---
Tin	ppm	ASTM D5185m	>5	<1	0	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

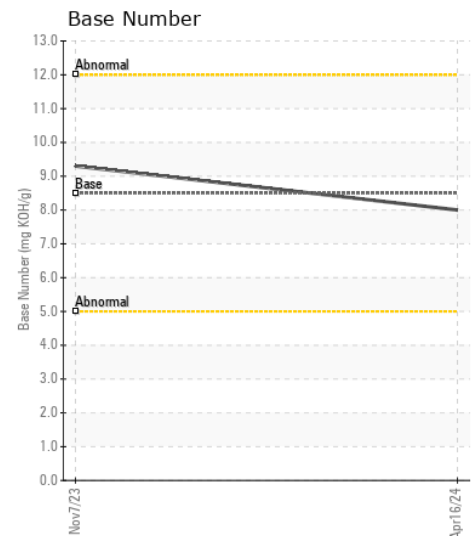
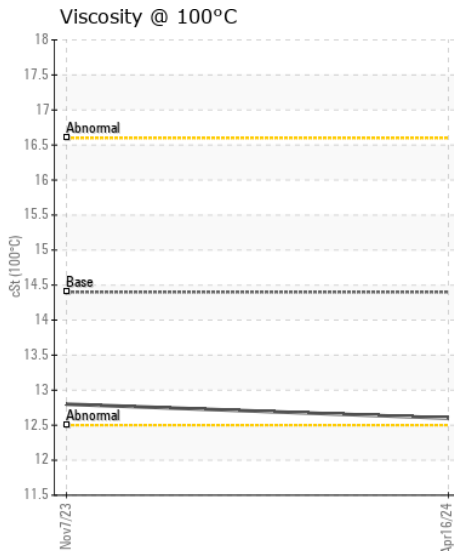
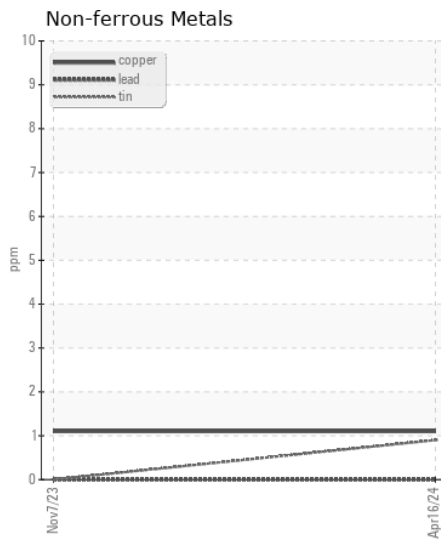
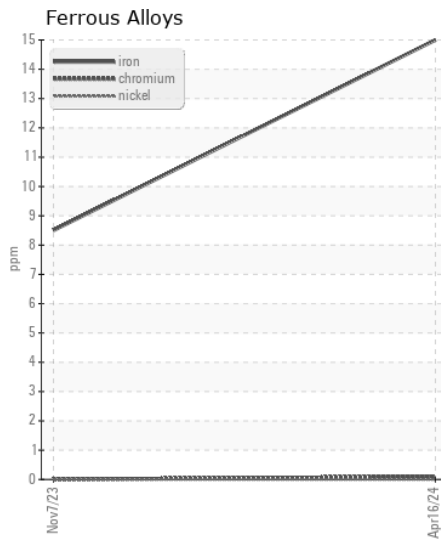
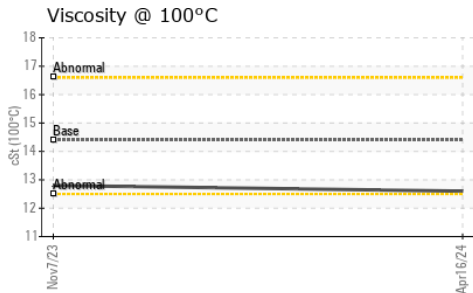
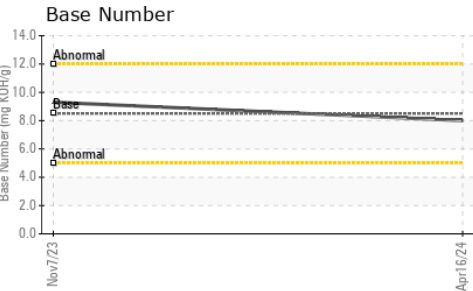
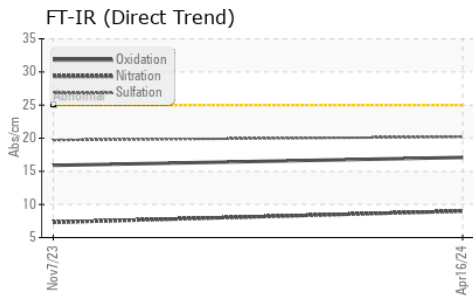
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	4	4	---
Potassium	ppm	ASTM D5185m	>20	14	9	---
Fuel		WC Method	>5	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.4	0.2	---
Nitration	Abs/cm	*ASTM D7624	>20	9.0	7.3	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.2	19.7	---
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 acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>216	2	1	---
Boron	ppm	ASTM D5185m	250	4	5	---
Barium	ppm	ASTM D5185m	10	0	0	---
Molybdenum	ppm	ASTM D5185m	100	69	63	---
Manganese	ppm	ASTM D5185m		<1	0	---
Magnesium	ppm	ASTM D5185m	450	1016	916	---
Calcium	ppm	ASTM D5185m	3000	1190	1054	---
Phosphorus	ppm	ASTM D5185m	1150	1098	1009	---
Zinc	ppm	ASTM D5185m	1350	1318	1202	---
Sulfur	ppm	ASTM D5185m	4250	3802	3363	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.1	15.9	---
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.0	9.3	---
Visc @ 100°C	cSt	ASTM D445	14.4	12.6	12.8	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : IL0033818
Lab Number : 06161175
Unique Number : 10996598
Test Package : FLEET

Received : 26 Apr 2024
Tested : 26 Apr 2024
Diagnosed : 29 Apr 2024 - Sean Felton

RUSH TRUCK LEASING - CHARLOTTE IDEALEASE
 1333 AMERON DR
 CHARLOTTE, NC
 US 28206

Contact: JERRY DIXON
 dixonj@rushenterprises.com

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)

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