



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
FREIGHTLINER 2206
Component
Diesel Engine
Fluid
ROYAL PURPLE MOTOR OIL 15W40 (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0719994	---	---
Sample Date		Client Info		13 Apr 2024	---	---
Machine Age	mls	Client Info		323675	---	---
Oil Age	mls	Client Info		100000	---	---
Filter Age	mls	Client Info		50000	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				NORMAL	---	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	82	---	---
Chromium	ppm	ASTM D5185m	>6	2	---	---
Nickel	ppm	ASTM D5185m	>3	<1	---	---
Titanium	ppm	ASTM D5185m	>2	<1	---	---
Silver	ppm	ASTM D5185m	>2	<1	---	---
Aluminum	ppm	ASTM D5185m	>50	9	---	---
Lead	ppm	ASTM D5185m	>10	<1	---	---
Copper	ppm	ASTM D5185m	>50	37	---	---
Tin	ppm	ASTM D5185m	>6	2	---	---
Vanadium	ppm	ASTM D5185m		<1	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

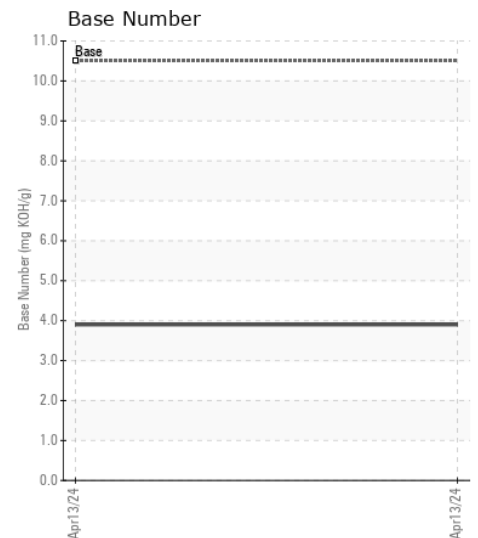
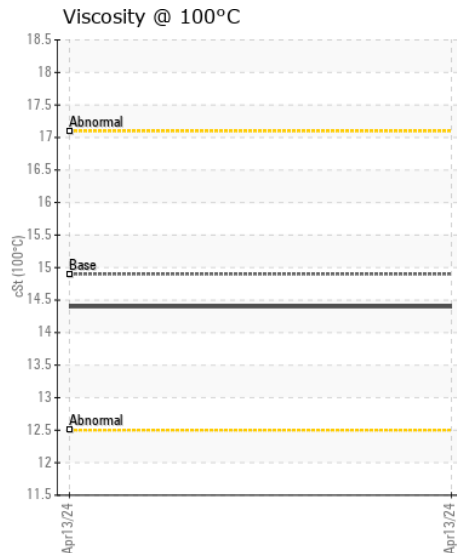
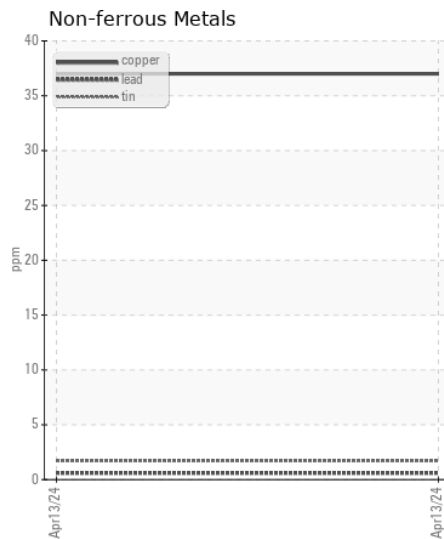
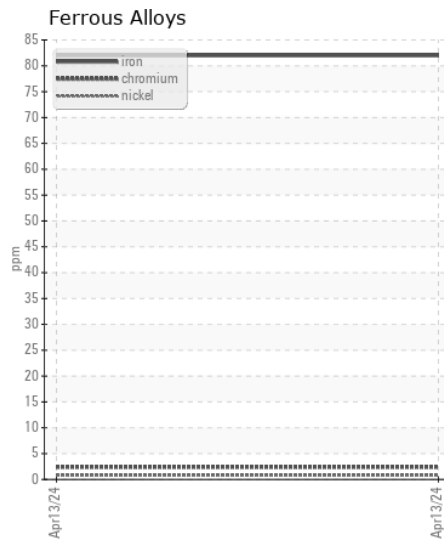
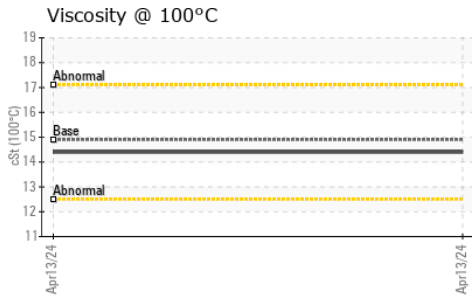
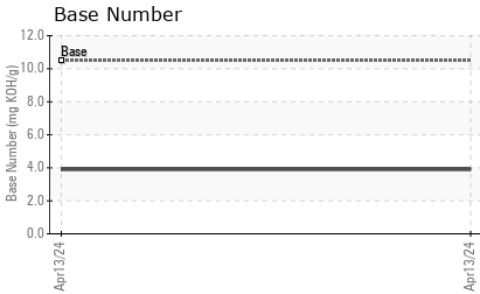
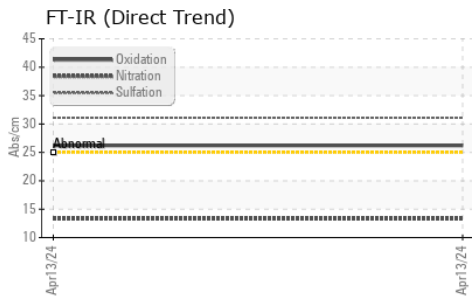
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	9	---	---
Potassium	ppm	ASTM D5185m	>20	18	---	---
Fuel		WC Method	>3.0	<1.0	---	---
Water		WC Method	>0.2	NEG	---	---
Glycol		WC Method		NEG	---	---
Soot %	%	*ASTM D7844	>3	1.8	---	---
Nitration	Abs/cm	*ASTM D7624	>20	13.3	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	31.1	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.2	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		2	---	---
Boron	ppm	ASTM D5185m	0	0	---	---
Barium	ppm	ASTM D5185m	0	0	---	---
Molybdenum	ppm	ASTM D5185m	100	1	---	---
Manganese	ppm	ASTM D5185m		<1	---	---
Magnesium	ppm	ASTM D5185m	60	20	---	---
Calcium	ppm	ASTM D5185m	3050	2728	---	---
Phosphorus	ppm	ASTM D5185m	1050	1051	---	---
Zinc	ppm	ASTM D5185m	1200	1216	---	---
Sulfur	ppm	ASTM D5185m	12500	3466	---	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	26.2	---	---
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	3.9	---	---
Visc @ 100°C	cSt	ASTM D445	14.9	14.4	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : WC0719994

Lab Number : 06174839

Unique Number : 11020892

Test Package : FLEET

Received : 09 May 2024

Tested : 10 May 2024

Diagnosed : 13 May 2024 - Sean Felton

DILLON TRANSPORTATION

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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)