

Machine Id
FREIGHTLINER 863911
Component
Diesel Engine
Fluid
SAE 5W30 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0085550	---	---
Sample Date		Client Info		30 Jan 2024	---	---
Machine Age	kms	Client Info		300274	---	---
Oil Age	kms	Client Info		0	---	---
Filter Age	kms	Client Info		0	---	---
Oil Changed		Client Info		N/A	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				NORMAL	---	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>80	37	---	---
Chromium	ppm	ASTM D5185(m)	>5	<1	---	---
Nickel	ppm	ASTM D5185(m)	>2	<1	---	---
Titanium	ppm	ASTM D5185(m)		0	---	---
Silver	ppm	ASTM D5185(m)	>3	0	---	---
Aluminum	ppm	ASTM D5185(m)	>30	2	---	---
Lead	ppm	ASTM D5185(m)	>30	2	---	---
Copper	ppm	ASTM D5185(m)	>150	15	---	---
Tin	ppm	ASTM D5185(m)	>5	0	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---

CONTAMINATION

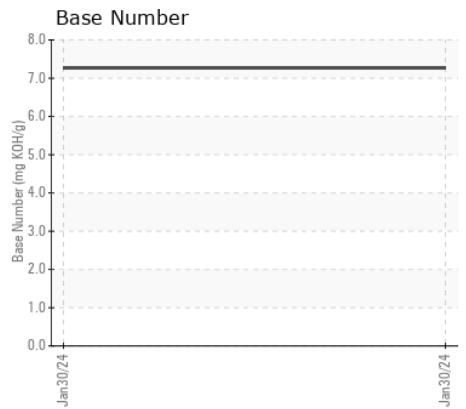
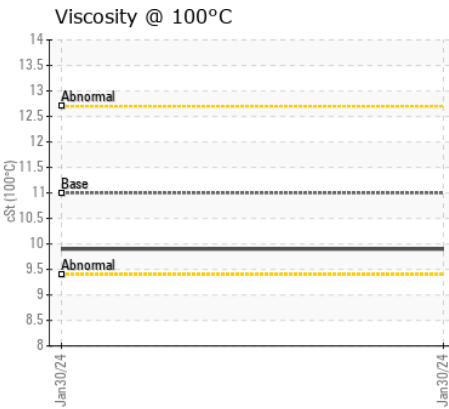
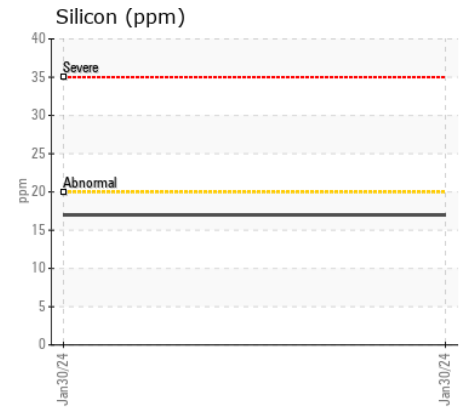
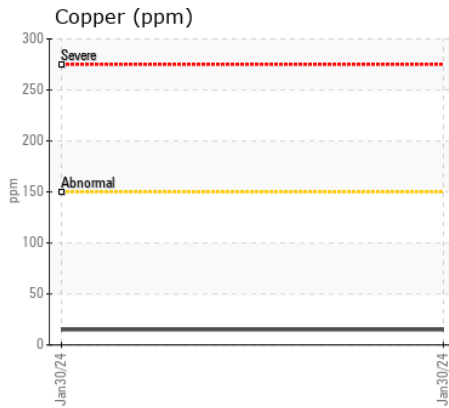
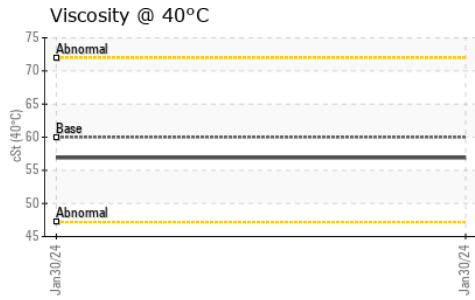
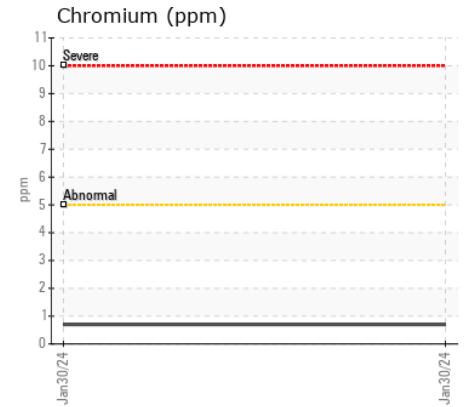
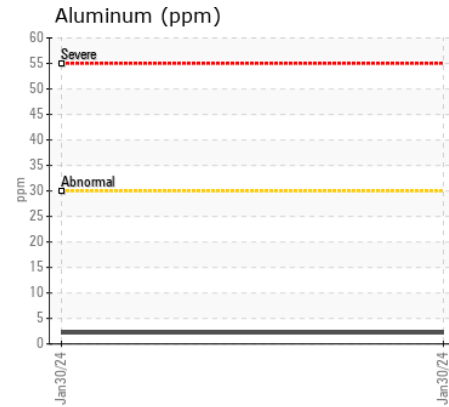
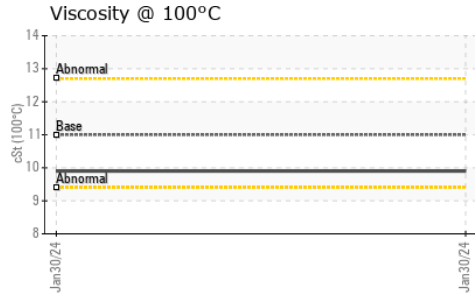
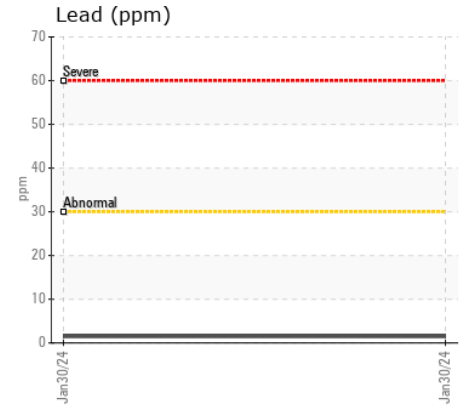
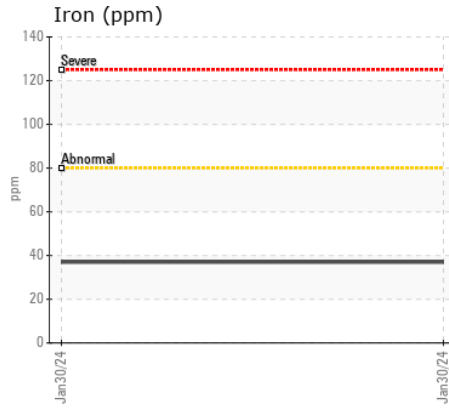
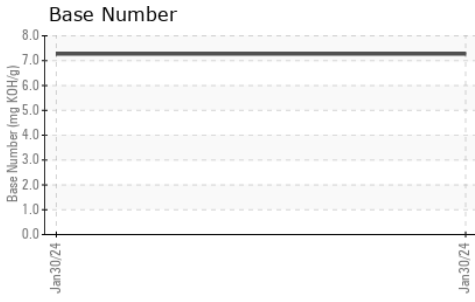
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	17	---	---
Potassium	ppm	ASTM D5185(m)	>20	1	---	---
Fuel		WC Method	>5	<1.0	---	---
Water		WC Method	>0.2	NEG	---	---
Glycol		WC Method		NEG	---	---
Soot %	%	ASTM D7844*	>3	0	---	---
Nitration	Abs/cm	ASTM D7624*	>20	7.2	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.2	---	---
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 suitable for further service.

Sodium	ppm	ASTM D5185(m)		8	---	---
Boron	ppm	ASTM D5185(m)		89	---	---
Barium	ppm	ASTM D5185(m)		0	---	---
Molybdenum	ppm	ASTM D5185(m)		71	---	---
Manganese	ppm	ASTM D5185(m)		0	---	---
Magnesium	ppm	ASTM D5185(m)		591	---	---
Calcium	ppm	ASTM D5185(m)		1246	---	---
Phosphorus	ppm	ASTM D5185(m)		639	---	---
Zinc	ppm	ASTM D5185(m)		823	---	---
Sulfur	ppm	ASTM D5185(m)		2444	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	10.6	---	---
Base Number (BN)	mg KOH/g	ASTM D2896*		7.27	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	60.0	56.9	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	11.0	9.9	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	177	161	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0085550 **Received** : 26 Feb 2024
Lab Number : 02618007 **Tested** : 27 Feb 2024
Unique Number : 5735117 **Diagnosed** : 27 Feb 2024 - Wes Davis
Test Package : MOB 2 (Additional Tests: KV40, VI)

UPS CANADA
 2900 STEELES AVE W
 CONCORD, ON
 CA L4K 3S2
 Contact: Service Manager

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.

T:
F: