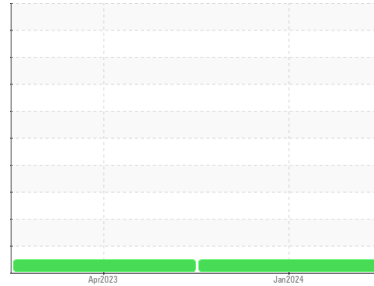


OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
Supermarket - Tractor
Machine Id
FREIGHTLINER 107A1810

Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 10W30 (11 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

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.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			PCA0116474	PCA0104799	---
Sample Date	Client Info			25 Jan 2024	21 Apr 2023	---
Machine Age	mls	Client Info		72797	51498	---
Oil Age	mls	Client Info		21299	17574	---
Oil Changed	Client Info			Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>5		<1.0	<1.0	---
Water	WC Method	>0.2		NEG	NEG	---
Glycol	WC Method			NEG	NEG	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	22	36	---
Chromium	ppm	ASTM D5185m	>5	<1	2	---
Nickel	ppm	ASTM D5185m	>2	0	1	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m	>3	0	<1	---
Aluminum	ppm	ASTM D5185m	>30	17	36	---
Lead	ppm	ASTM D5185m	>30	0	<1	---
Copper	ppm	ASTM D5185m	>150	54	74	---
Tin	ppm	ASTM D5185m	>5	0	3	---
Vanadium	ppm	ASTM D5185m		0	0	---
Cadmium	ppm	ASTM D5185m		0	0	---

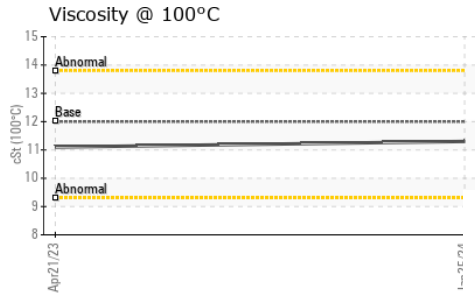
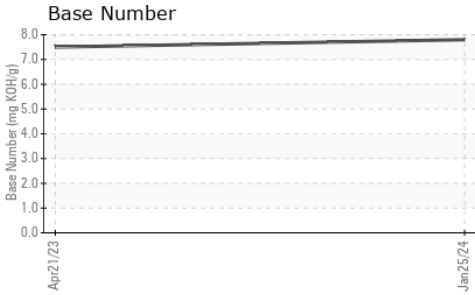
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	2	6	---
Barium	ppm	ASTM D5185m	0	5	0	---
Molybdenum	ppm	ASTM D5185m	50	61	57	---
Manganese	ppm	ASTM D5185m	0	0	2	---
Magnesium	ppm	ASTM D5185m	950	929	902	---
Calcium	ppm	ASTM D5185m	1050	1084	1219	---
Phosphorus	ppm	ASTM D5185m	995	1016	977	---
Zinc	ppm	ASTM D5185m	1180	1204	1245	---
Sulfur	ppm	ASTM D5185m	2600	2776	2367	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	4	5	---
Sodium	ppm	ASTM D5185m		0	3	---
Potassium	ppm	ASTM D5185m	>20	40	94	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.8	0.9	---
Nitration	Abs/cm	*ASTM D7624	>20	8.0	9.2	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.3	21.8	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.2	18.7	---
Base Number (BN)	mg KOH/g	ASTM D2896		7.8	7.5	---

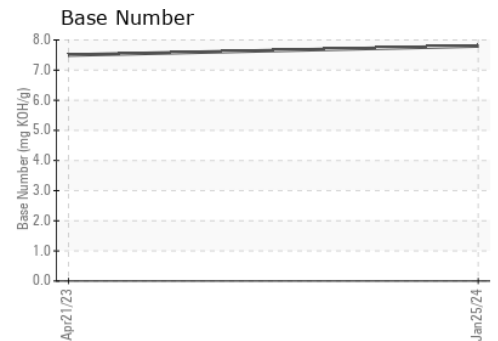
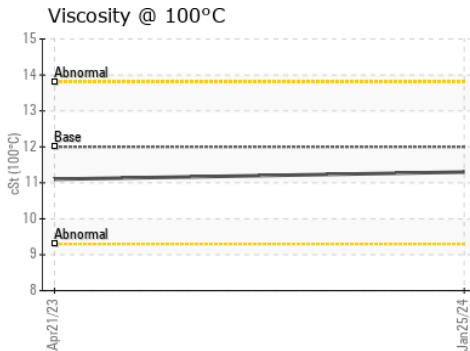
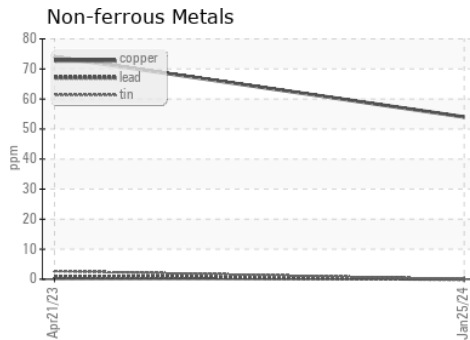
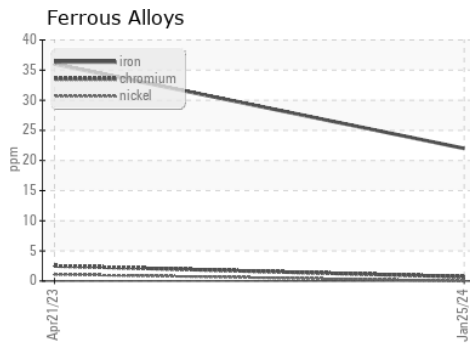
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
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
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.00	11.3	11.1

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0116474 **Received** : 05 Feb 2024
Lab Number : **06080604** **Diagnosed** : 06 Feb 2024
Unique Number : 10862695 **Diagnostician** : Wes Davis
Test Package : FLEET

Transervice - Shop 1072 - Supermarket-Elizabeth
 505 Division Street
 Elizabeth, NJ
 US 07207
 Contact: Normand Brizak
 nbrizak@transervice.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)

T:
F: