

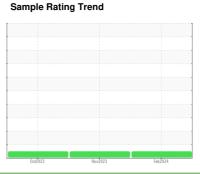
# **OIL ANALYSIS REPORT**

# (AY401B) Supermarket - Tractor FREIGHTLINER 107A1834

Component

**Diesel Engine** 

PETRO CANADA DURON SHP 10W30 (11 GAL)





### DIAGNOSIS

#### Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### 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. No other contaminants were detected in the oil.

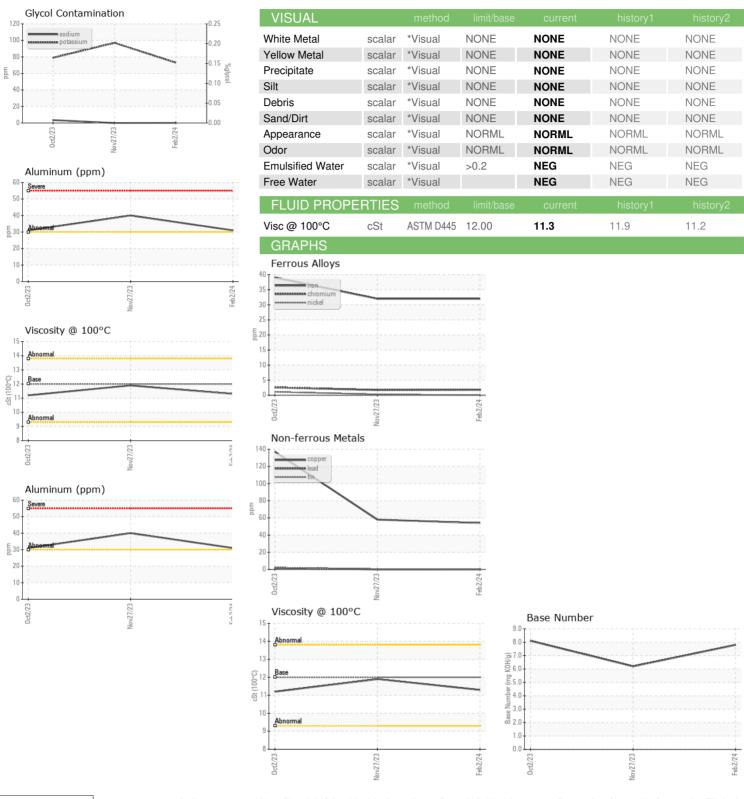
#### **Fluid Condition**

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.

		Uct	2023	Nov2023 Feb202	24	
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0116476	PCA0111538	PCA0104800
Sample Date		Client Info		02 Feb 2024	27 Nov 2023	02 Oct 2023
Machine Age	mls	Client Info		77011	85566	57803
Oil Age	mls	Client Info		19208	27763	13667
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	NC	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	;	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	32	32	39
Chromium	ppm	ASTM D5185m	>5	2	2	3
Nickel	ppm	ASTM D5185m	>2	0	<1	1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>30	31	40	31
Lead	ppm	ASTM D5185m	>30	0	0	1
Copper	ppm	ASTM D5185m	>150	54	58	137
Tin	ppm	ASTM D5185m	>5	0	<1	2
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	5	10	7
Barium	ppm	ASTM D5185m	0	5	2	0
Molybdenum	ppm	ASTM D5185m	50	83	22	57
Manganese	ppm	ASTM D5185m	0	0	<1	2
Magnesium	ppm	ASTM D5185m	950	1285	212	884
Calcium	ppm	ASTM D5185m	1050	1500	2109	1210
Phosphorus	ppm	ASTM D5185m	995	1422	818	1012
Zinc	ppm	ASTM D5185m	1180	1679	1059	1231
Sulfur	ppm	ASTM D5185m	2600	4073	3419	2585
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	6	5	5
Sodium	ppm	ASTM D5185m		<1	0	4
Potassium	ppm	ASTM D5185m	>20	73	97	79
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.7	0.9	0.7
Nitration	Abs/cm	*ASTM D7624	>20	8.0	8.2	8.7
	Abs/.1mm	*ASTM D7415	>30	20.3	21.5	21.2
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.2	14.6	18.1
	mg KOH/g	ASTM D2896		7.8	6.2	8.1
	0					



## **OIL ANALYSIS REPORT**







Laboratory Sample No.

Lab Number : 06080602 **Unique Number** : 10862693

: PCA0116476 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 05 Feb 2024 : 06 Feb 2024 **Tested** 

Diagnosed : 07 Feb 2024 - Don Baldridge

Transervice - Shop 1072 - Supermarket-Elizabeth

505 Division Street Elizabeth, NJ US 07207

Contact: Normand Brizak nbrizak@transervice.com

Certificate L2367 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: