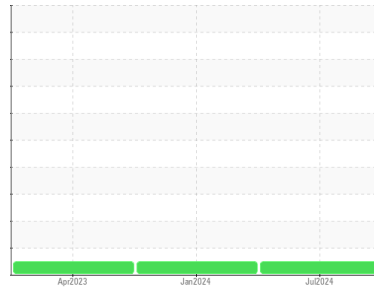


# OIL ANALYSIS REPORT

## 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

All component wear rates are normal.

### Contamination

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			<b>PCA0124706</b>	PCA0116474	PCA0104799
Sample Date	Client Info			<b>15 Jul 2024</b>	25 Jan 2024	21 Apr 2023
Machine Age	mls	Client Info		<b>104103</b>	72797	51498
Oil Age	mls	Client Info		<b>31306</b>	21299	17574
Oil Changed	Client Info			<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>5		<b>&lt;1.0</b>	<1.0	<1.0
Water	WC Method	>0.2		<b>NEG</b>	NEG	NEG
Glycol	WC Method			<b>NEG</b>	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	<b>34</b>	22	36
Chromium	ppm	ASTM D5185m	>5	<b>2</b>	<1	2
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	1
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>30	<b>17</b>	17	36
Lead	ppm	ASTM D5185m	>30	<b>&lt;1</b>	0	<1
Copper	ppm	ASTM D5185m	>150	<b>28</b>	54	74
Tin	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	3
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

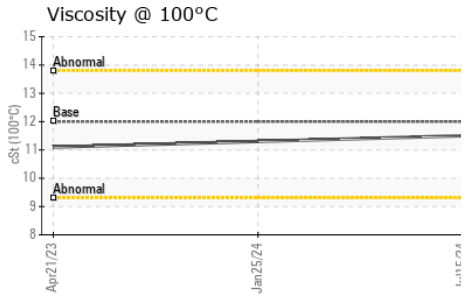
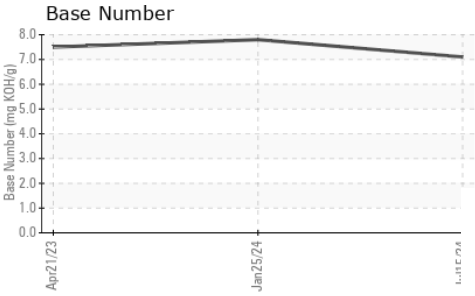
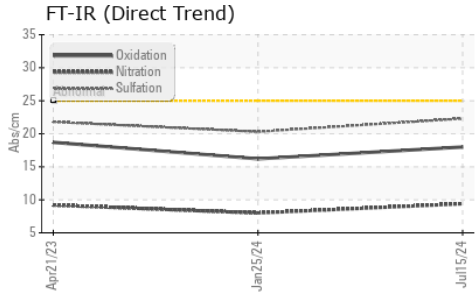
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	<b>3</b>	2	6
Barium	ppm	ASTM D5185m	0	<b>0</b>	5	0
Molybdenum	ppm	ASTM D5185m	50	<b>69</b>	61	57
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	0	2
Magnesium	ppm	ASTM D5185m	950	<b>990</b>	929	902
Calcium	ppm	ASTM D5185m	1050	<b>1157</b>	1084	1219
Phosphorus	ppm	ASTM D5185m	995	<b>955</b>	1016	977
Zinc	ppm	ASTM D5185m	1180	<b>1287</b>	1204	1245
Sulfur	ppm	ASTM D5185m	2600	<b>2381</b>	2776	2367

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	<b>6</b>	4	5
Sodium	ppm	ASTM D5185m		<b>5</b>	0	3
Potassium	ppm	ASTM D5185m	>20	<b>37</b>	40	94

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	<b>1.1</b>	0.8	0.9
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.4</b>	8.0	9.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>22.3</b>	20.3	21.8

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>18.0</b>	16.2	18.7
Base Number (BN)	mg KOH/g	ASTM D2896		<b>7.1</b>	7.8	7.5

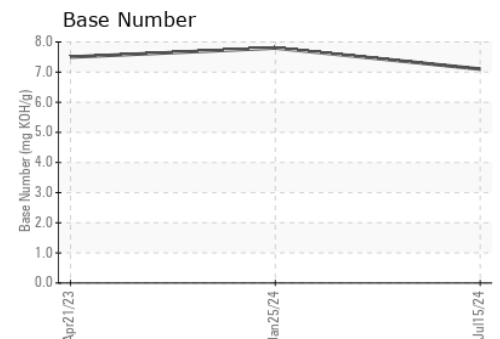
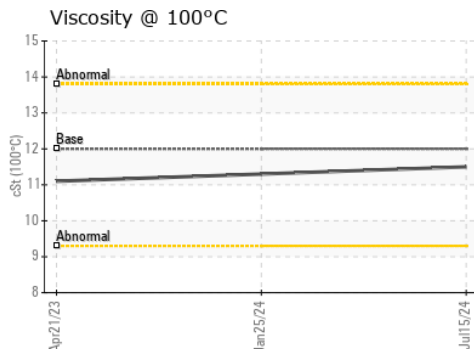
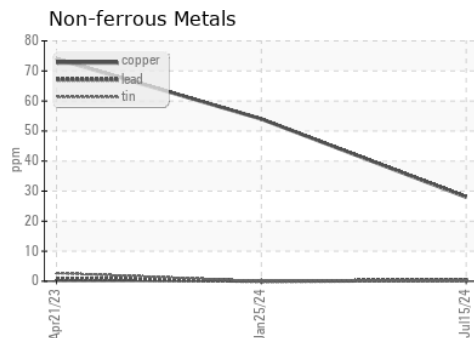
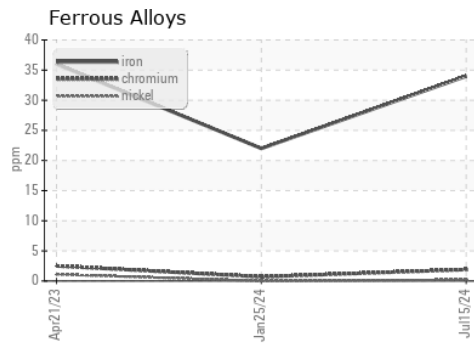
# OIL ANALYSIS REPORT



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	11.5	11.3

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0124706      **Received** : 18 Jul 2024  
**Lab Number** : 06241146      **Tested** : 19 Jul 2024  
**Unique Number** : 11129980      **Diagnosed** : 19 Jul 2024 - 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)