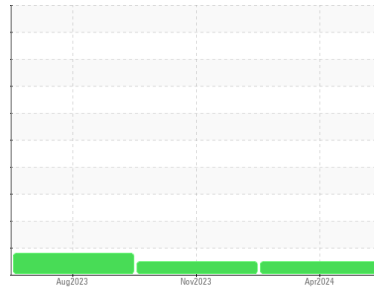


# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Area  
**(AY418B) Supermarket - Tractor**  
 Machine Id  
**FREIGHTLINER 107A1852**  
 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>PCA0116456</b>	PCA0111545	PCA0100410
Sample Date	Client Info	<b>04 Apr 2024</b>	20 Nov 2023	09 Aug 2023
Machine Age	hrs Client Info	<b>63305</b>	46462	33551
Oil Age	hrs Client Info	<b>16843</b>	12911	33551
Oil Changed	Client Info	<b>Changed</b>	Changed	Changed
Sample Status		<b>NORMAL</b>	NORMAL	ABNORMAL

### 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>20</b>	14	60
Chromium	ppm ASTM D5185m >5	<b>2</b>	<1	4
Nickel	ppm ASTM D5185m >2	<b>&lt;1</b>	<1	<1
Titanium	ppm ASTM D5185m	<b>&lt;1</b>	0	<1
Silver	ppm ASTM D5185m >3	<b>&lt;1</b>	<1	0
Aluminum	ppm ASTM D5185m >30	<b>10</b>	9	53
Lead	ppm ASTM D5185m >30	<b>&lt;1</b>	0	2
Copper	ppm ASTM D5185m >150	<b>30</b>	38	▲ 201
Tin	ppm ASTM D5185m >5	<b>1</b>	<1	4
Vanadium	ppm ASTM D5185m	<b>&lt;1</b>	0	0
Cadmium	ppm ASTM D5185m	<b>&lt;1</b>	0	0

### ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 2	<b>4</b>	16	30
Barium	ppm ASTM D5185m 0	<b>0</b>	2	0
Molybdenum	ppm ASTM D5185m 50	<b>52</b>	20	50
Manganese	ppm ASTM D5185m 0	<b>&lt;1</b>	0	4
Magnesium	ppm ASTM D5185m 950	<b>792</b>	184	662
Calcium	ppm ASTM D5185m 1050	<b>1381</b>	2103	1821
Phosphorus	ppm ASTM D5185m 995	<b>974</b>	819	815
Zinc	ppm ASTM D5185m 1180	<b>1216</b>	1035	1059
Sulfur	ppm ASTM D5185m 2600	<b>2932</b>	4216	2562

### CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >20	<b>6</b>	4	7
Sodium	ppm ASTM D5185m	<b>&lt;1</b>	0	5
Potassium	ppm ASTM D5185m >20	<b>26</b>	31	158

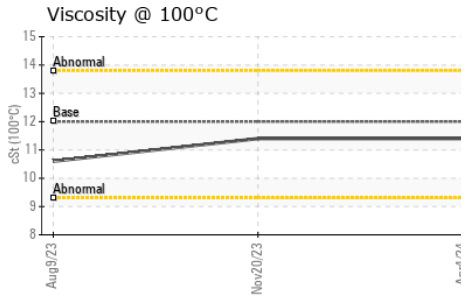
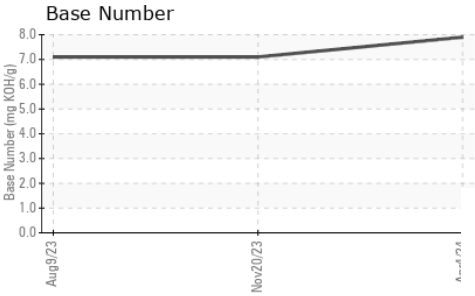
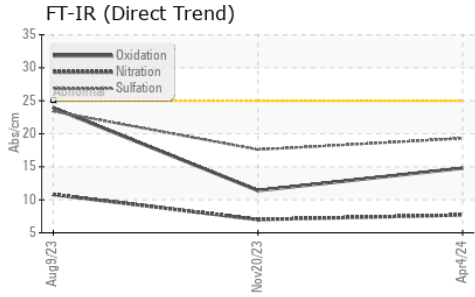
### INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	<b>0.5</b>	0.3	0.8
Nitration	Abs/cm *ASTM D7624 >20	<b>7.7</b>	7.0	10.8
Sulfation	Abs/.1mm *ASTM D7415 >30	<b>19.3</b>	17.6	23.4

### FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	<b>14.8</b>	11.4	23.9
Base Number (BN)	mg KOH/g ASTM D2896	<b>7.9</b>	7.1	7.1

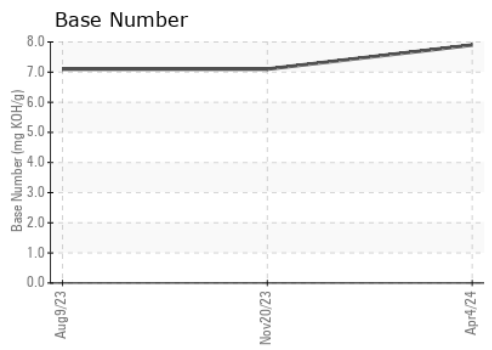
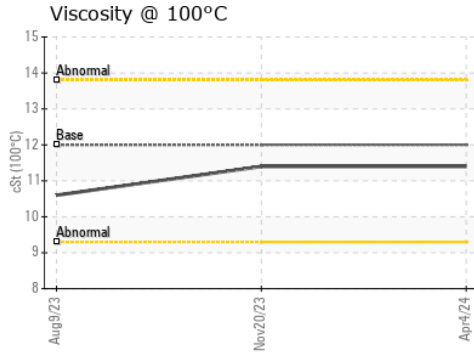
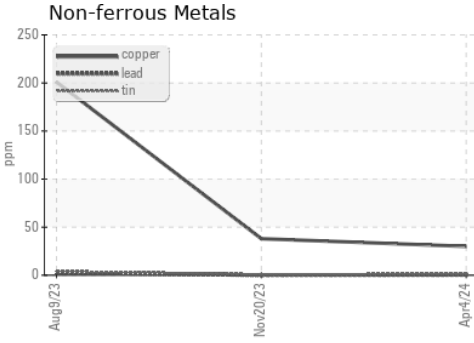
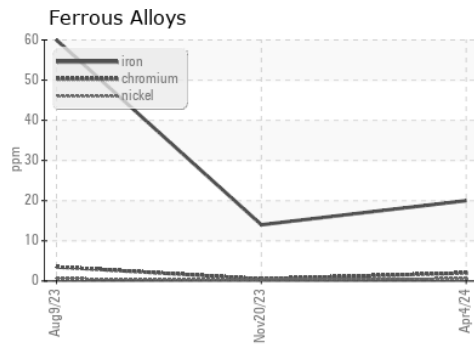
# OIL ANALYSIS REPORT



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	11.4	11.4

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0116456      **Received** : 08 Apr 2024  
**Lab Number** : 06140867      **Tested** : 08 Apr 2024  
**Unique Number** : 10965675      **Diagnosed** : 08 Apr 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)