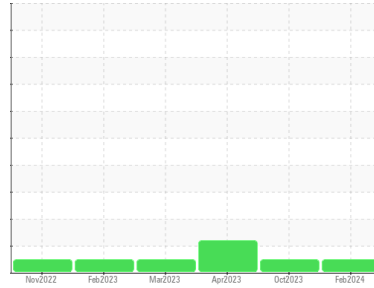




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**MONTGOMERY**  
 Machine Id  
**KENWORTH 426116**

Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 15W40 (--- LTR)**

## 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>GFL0088635</b>	GFL0092420	GFL0078448
Sample Date	Client Info	<b>15 Feb 2024</b>	16 Oct 2023	05 Apr 2023
Machine Age	hrs	<b>16110</b>	15993	15753
Oil Age	hrs	<b>117</b>	240	273
Oil Changed	Client Info	<b>Not 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 >100	<b>10</b>	24	74
Chromium	ppm ASTM D5185m >20	<b>&lt;1</b>	<1	2
Nickel	ppm ASTM D5185m >4	<b>0</b>	<1	<1
Titanium	ppm ASTM D5185m	<b>0</b>	<1	0
Silver	ppm ASTM D5185m >3	<b>0</b>	0	0
Aluminum	ppm ASTM D5185m >20	<b>2</b>	3	5
Lead	ppm ASTM D5185m >40	<b>2</b>	6	27
Copper	ppm ASTM D5185m >330	<b>&lt;1</b>	<1	3
Tin	ppm ASTM D5185m >15	<b>&lt;1</b>	<1	1
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 0	<b>3</b>	7	28
Barium	ppm ASTM D5185m 0	<b>3</b>	0	0
Molybdenum	ppm ASTM D5185m 60	<b>59</b>	72	102
Manganese	ppm ASTM D5185m 0	<b>0</b>	0	1
Magnesium	ppm ASTM D5185m 1010	<b>823</b>	931	682
Calcium	ppm ASTM D5185m 1070	<b>982</b>	1188	1435
Phosphorus	ppm ASTM D5185m 1150	<b>946</b>	971	848
Zinc	ppm ASTM D5185m 1270	<b>1074</b>	1228	1023
Sulfur	ppm ASTM D5185m 2060	<b>3068</b>	3210	2362

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	<b>4</b>	7	15
Sodium	ppm ASTM D5185m	<b>0</b>	0	<1
Potassium	ppm ASTM D5185m >20	<b>3</b>	6	14

## INFRA-RED

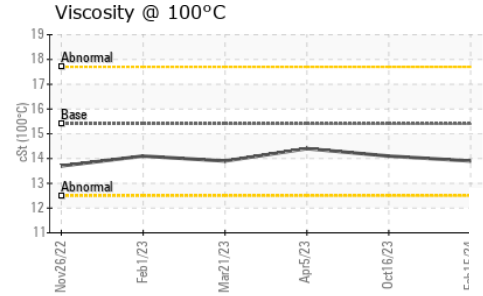
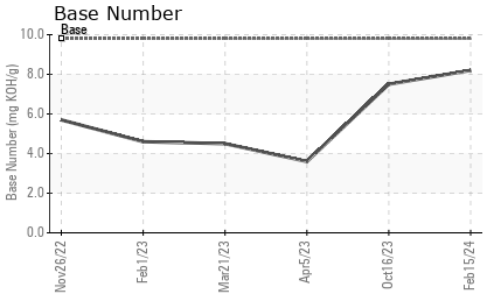
method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	<b>0.2</b>	0.4	1
Nitration	Abs/cm *ASTM D7624 >20	<b>7.0</b>	9.1	13.6
Sulfation	Abs/.1mm *ASTM D7415 >30	<b>18.5</b>	20.1	29.1

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	<b>14.6</b>	16.5	29.4
Base Number (BN)	mg KOH/g ASTM D2896 9.8	<b>8.2</b>	7.5	▲ 3.6



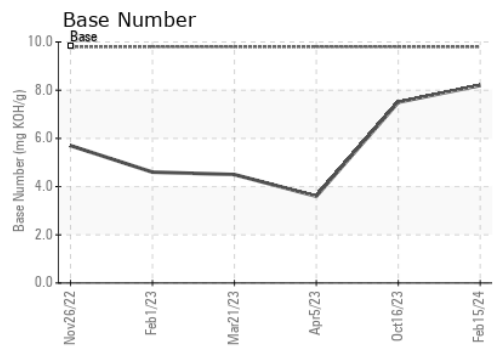
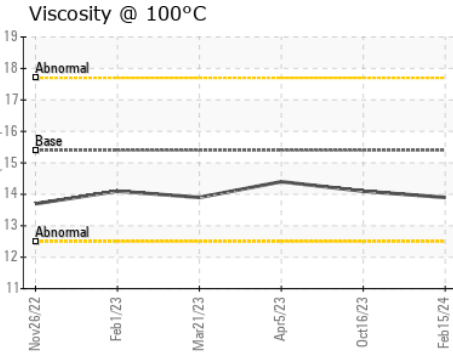
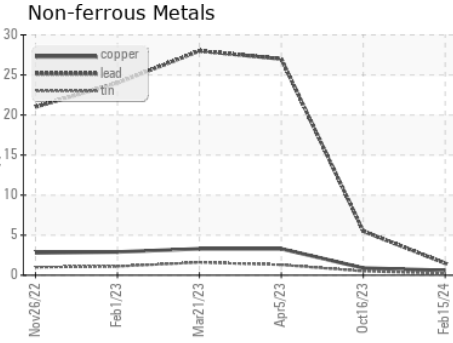
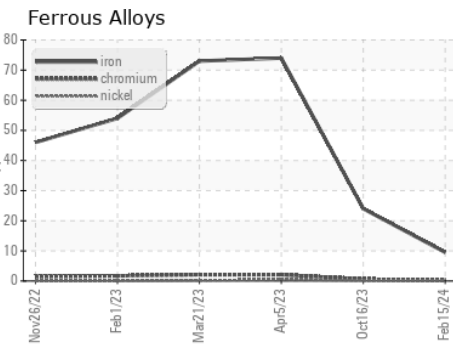
# OIL ANALYSIS REPORT



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	15.4	<b>13.9</b>	14.1	14.4

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0088635  
**Lab Number** : 06094027  
**Unique Number** : 10886880  
**Test Package** : FLEET

**GFL Environmental - 955 - Montgomery**  
 1121 Wilbanks St  
 Montgomery, AL  
 US 36108  
 Contact: LISA REEVES

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)

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F: