



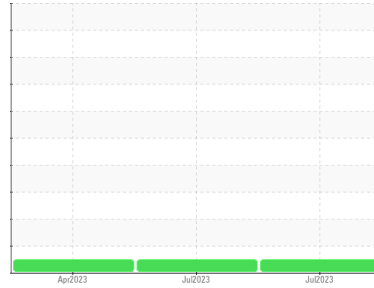
# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**(TB7360) S0916A-Suamico**  
Machine Id  
**FREIGHTLINER 411050**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 15W40 (42 QTS)**



## 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>GFL0089495</b>	GFL0074837	GFL0074813
Sample Date	Client Info		<b>26 Jul 2023</b>	26 Jul 2023	24 Apr 2023
Machine Age	hrs	Client Info	<b>3573</b>	5015	4386
Oil Age	hrs	Client Info	<b>0</b>	629	538
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	>3.0	<b>&lt;1.0</b>	<1.0	<1.0
Glycol	WC Method		<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >200	<b>10</b>	10	9
Chromium	ppm	ASTM D5185m >6	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m >3	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185m >2	<b>0</b>	0	0
Silver	ppm	ASTM D5185m >2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >50	<b>3</b>	2	4
Lead	ppm	ASTM D5185m >10	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m >50	<b>2</b>	12	14
Tin	ppm	ASTM D5185m >6	<b>0</b>	1	2
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	<1
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	<b>2</b>	6	17
Barium	ppm	ASTM D5185m 0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m 60	<b>64</b>	56	66
Manganese	ppm	ASTM D5185m 0	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m 1010	<b>1052</b>	951	985
Calcium	ppm	ASTM D5185m 1070	<b>1138</b>	1108	1188
Phosphorus	ppm	ASTM D5185m 1150	<b>1098</b>	968	1051
Zinc	ppm	ASTM D5185m 1270	<b>1383</b>	1285	1326
Sulfur	ppm	ASTM D5185m 2060	<b>3829</b>	3374	3698

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	<b>3</b>	2	4
Sodium	ppm	ASTM D5185m	<b>2</b>	1	<1
Potassium	ppm	ASTM D5185m >20	<b>2</b>	4	4

## INFRA-RED

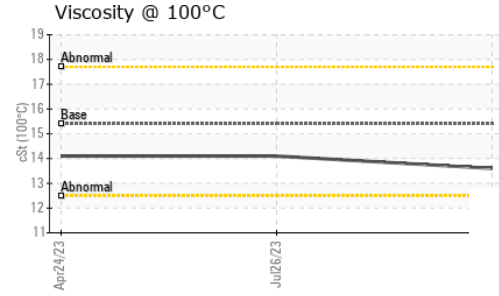
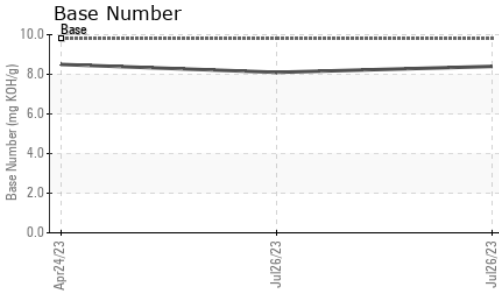
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.4</b>	0.5	0.4
Nitration	Abs/cm	*ASTM D7624 >20	<b>7.7</b>	7.6	8.0
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>19.3</b>	19.9	19.3

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>14.9</b>	15.5	14.6
Base Number (BN)	mg KOH/g	ASTM D2896 9.8	<b>8.4</b>	8.1	8.5



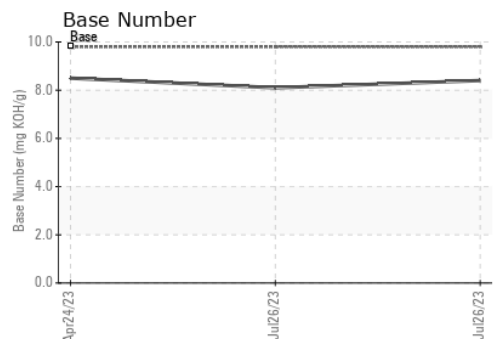
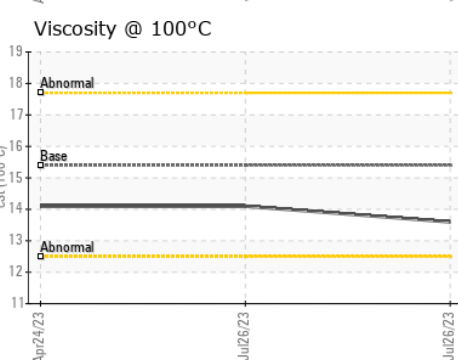
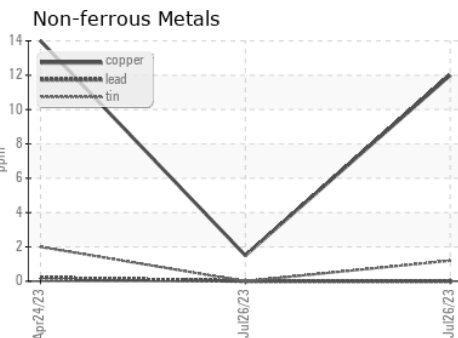
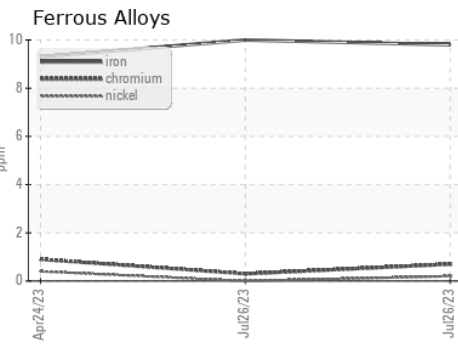
# OIL ANALYSIS REPORT



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	15.4	<b>13.6</b>	14.1	14.1

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0089495 **Received** : 05 Sep 2023  
**Lab Number** : **05941884** **Diagnosed** : 06 Sep 2023  
**Unique Number** : 10632496 **Diagnostician** : Wes Davis  
**Test Package** : FLEET

**GFL Environmental - 916A - Suamico**  
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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)