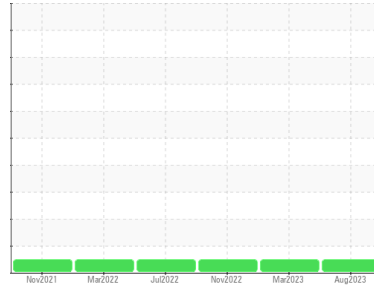


# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id  
**516815**

Component  
**Diesel Engine**

Fluid  
**PETRO CANADA DURON SHP 10W30 (--- QTS)**

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

#### Wear

Metal levels are typical for a new component breaking in.

#### 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. 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>PCA0103005</b>	PCA0094194	PCA0081950	
Sample Date	Client Info	<b>02 Aug 2023</b>	01 Mar 2023	02 Nov 2022	
Machine Age	mls	Client Info	<b>57682</b>	46267	41234
Oil Age	mls	Client Info	<b>0</b>	0	0
Oil Changed	Client Info	<b>Not Chngd</b>	Not Chngd	Not Chngd	
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
Glycol	WC Method		<b>NEG</b>	NEG	NEG

### WEAR METALS

method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185m	>100	<b>55</b>	36	33
Chromium	ppm	ASTM D5185m	>20	<b>3</b>	2	2
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	1	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	<1	<1
Aluminum	ppm	ASTM D5185m	>20	<b>26</b>	18	17
Lead	ppm	ASTM D5185m	>40	<b>1</b>	<1	<1
Copper	ppm	ASTM D5185m	>330	<b>110</b>	108	106
Tin	ppm	ASTM D5185m	>15	<b>4</b>	4	4
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	<1

### ADDITIVES

method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185m	2	<b>3</b>	5	7
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	2
Molybdenum	ppm	ASTM D5185m	50	<b>54</b>	53	56
Manganese	ppm	ASTM D5185m	0	<b>2</b>	2	2
Magnesium	ppm	ASTM D5185m	950	<b>934</b>	834	871
Calcium	ppm	ASTM D5185m	1050	<b>1192</b>	1190	1160
Phosphorus	ppm	ASTM D5185m	995	<b>878</b>	860	870
Zinc	ppm	ASTM D5185m	1180	<b>1182</b>	1123	1154
Sulfur	ppm	ASTM D5185m	2600	<b>2690</b>	2170	2852

### CONTAMINANTS

method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>25	<b>5</b>	4	4
Sodium	ppm	ASTM D5185m		<b>4</b>	1	3
Potassium	ppm	ASTM D5185m	>20	<b>50</b>	29	25

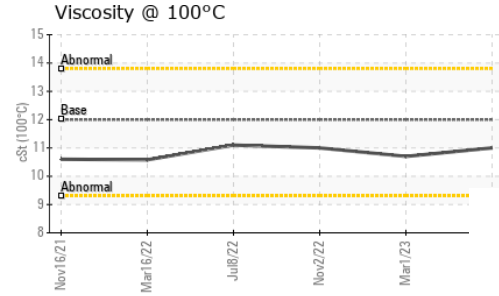
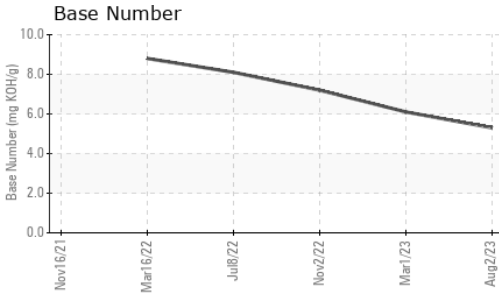
### INFRA-RED

method	limit/base	current	history1	history2		
Soot %	%	*ASTM D7844	>3	<b>0.9</b>	0.6	0.6
Nitration	Abs/cm	*ASTM D7624	>20	<b>10.4</b>	9.4	9.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>22.4</b>	21.6	22.9

### FLUID DEGRADATION

method	limit/base	current	history1	history2		
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>18.6</b>	17.3	18.1
Base Number (BN)	mg KOH/g	ASTM D2896		<b>5.3</b>	6.1	7.2

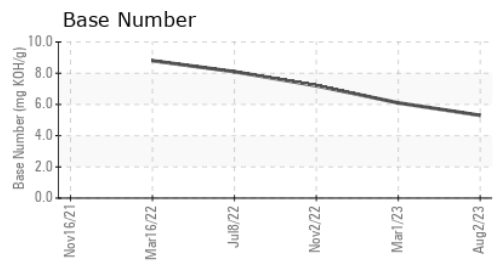
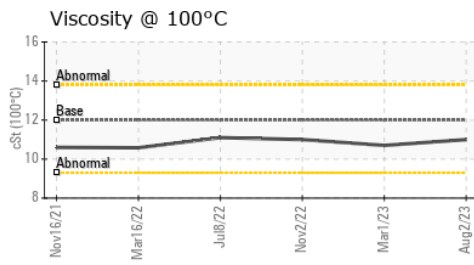
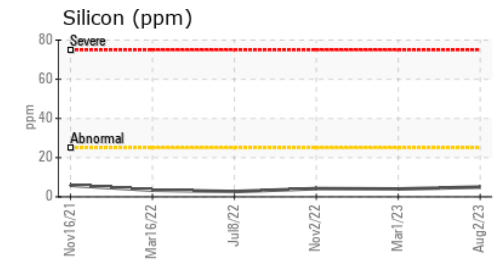
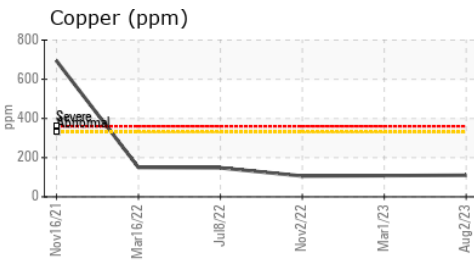
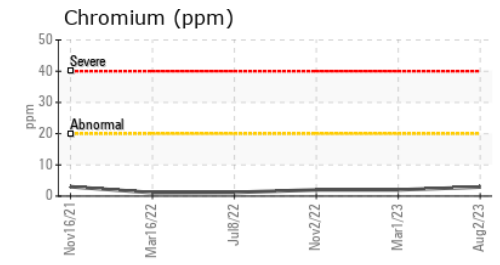
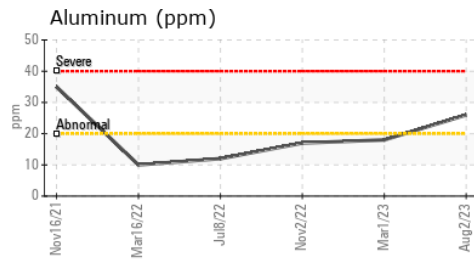
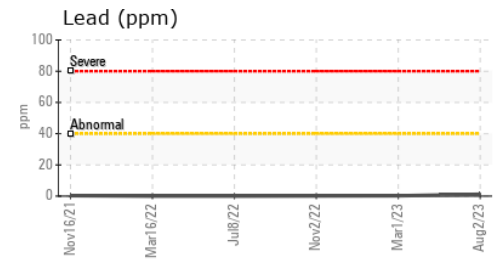
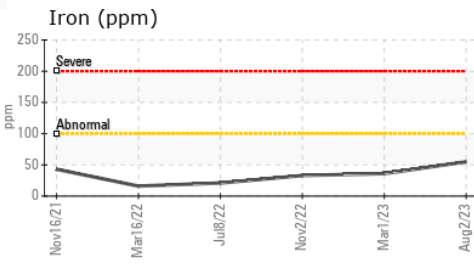
# OIL ANALYSIS REPORT



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	11.0	10.7

### GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0103005 **Received** : 16 Aug 2023  
**Lab Number** : 05925767 **Diagnosed** : 16 Aug 2023  
**Unique Number** : 10605714 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: TBN )

**MILLER TRUCK LEASING #119**  
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 US 07604  
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 mlongette@millertransgroup.com  
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 F: (201)528-7053

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)