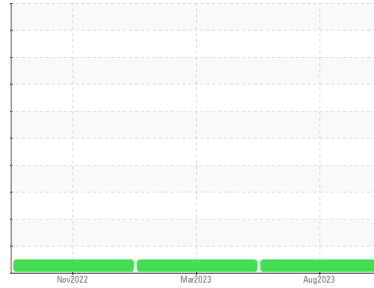


# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id  
**615620**  
 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

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>PCA0100918</b>	PCA0094502	PCA0082498
Sample Date	Client Info			<b>04 Aug 2023</b>	27 Mar 2023	16 Nov 2022
Machine Age	mls	Client Info		<b>29081</b>	18116	6489
Oil Age	mls	Client Info		<b>0</b>	10000	6489
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
Glycol	WC Method			<b>NEG</b>	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	<b>17</b>	19	38
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	1	1
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>20	<b>5</b>	4	15
Lead	ppm	ASTM D5185m	>40	<b>2</b>	0	5
Copper	ppm	ASTM D5185m	>330	<b>2</b>	5	51
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	0	3
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0

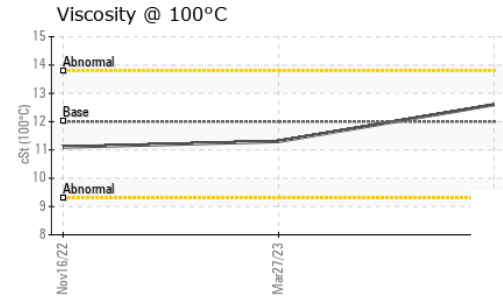
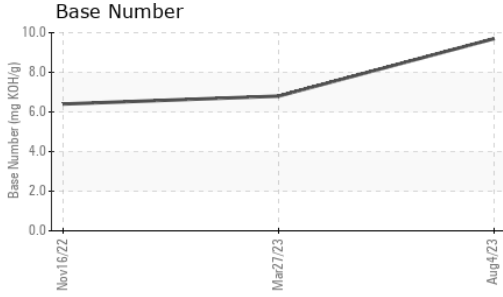
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	<b>4</b>	37	52
Barium	ppm	ASTM D5185m	0	<b>&lt;1</b>	0	5
Molybdenum	ppm	ASTM D5185m	50	<b>70</b>	43	9
Manganese	ppm	ASTM D5185m	0	<b>1</b>	1	7
Magnesium	ppm	ASTM D5185m	950	<b>1003</b>	552	696
Calcium	ppm	ASTM D5185m	1050	<b>1378</b>	1802	1296
Phosphorus	ppm	ASTM D5185m	995	<b>1135</b>	964	711
Zinc	ppm	ASTM D5185m	1180	<b>1425</b>	1164	790
Sulfur	ppm	ASTM D5185m	2600	<b>3808</b>	3698	3113

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>4</b>	11	48
Sodium	ppm	ASTM D5185m		<b>4</b>	3	8
Potassium	ppm	ASTM D5185m	>20	<b>5</b>	0	53

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	<b>1.4</b>	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	<b>11.6</b>	7.7	10.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.8</b>	17.5	22.7

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>18.4</b>	15.3	19.1
Base Number (BN)	mg KOH/g	ASTM D2896		<b>9.7</b>	6.8	6.4

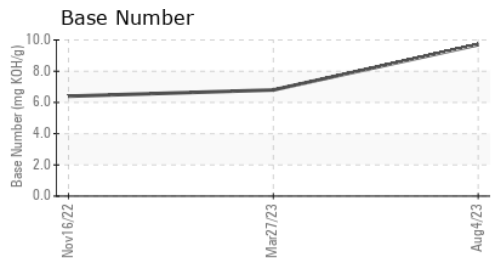
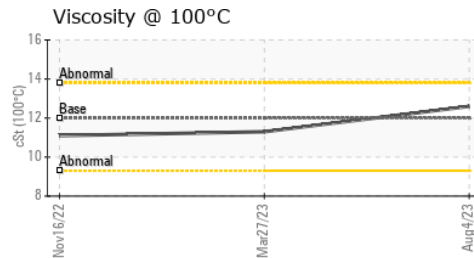
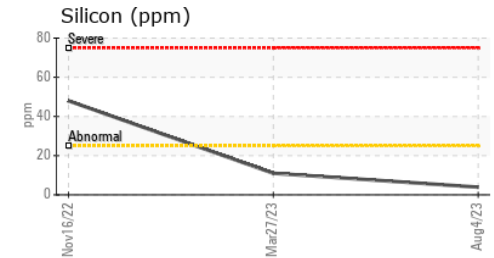
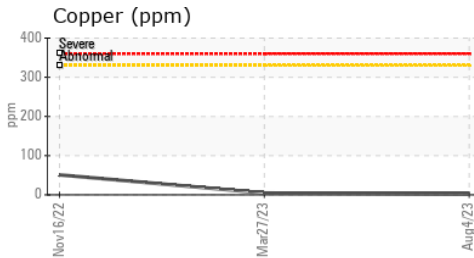
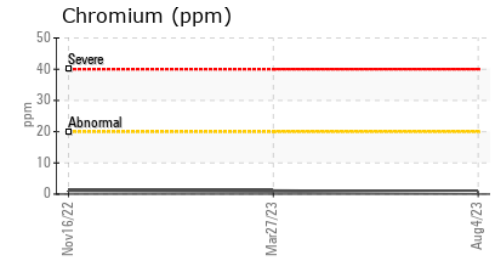
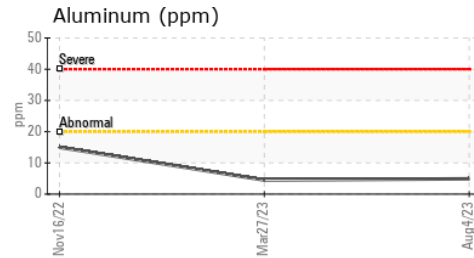
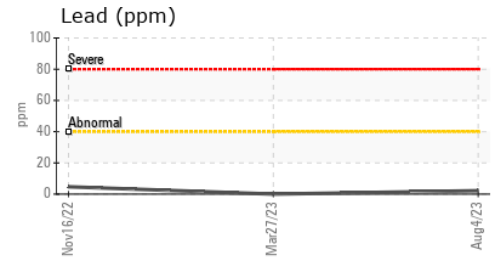
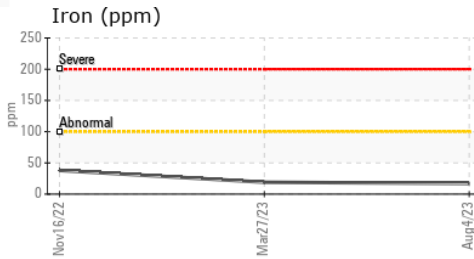
# OIL ANALYSIS REPORT



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	<b>12.6</b>	11.3	11.1

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0100918 **Received** : 14 Aug 2023  
**Lab Number** : 05923003 **Diagnosed** : 14 Aug 2023  
**Unique Number** : 10602950 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: TBN )

**MILLER TRUCK LEASING #114**  
 63 REPAUPO STATION ROAD  
 LOGAN TOWNSHIP, NJ  
 US 08085  
 Contact: ED DAVIS  
 edavis@millertransgroup.com  
 T: (856)214-3521  
 F: (856)214-3663

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)