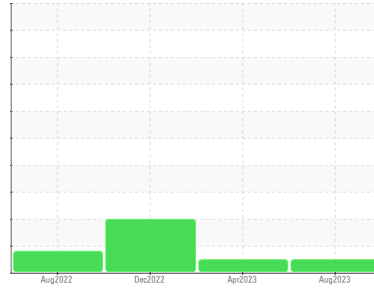


# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**621525**

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

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>PCA0104224</b>	PCA0095926	PCA0083573
Sample Date	Client Info			<b>24 Aug 2023</b>	07 Apr 2023	12 Dec 2022
Machine Age	mls Client Info			<b>134740</b>	102987	75525
Oil Age	mls Client Info			<b>0</b>	0	0
Oil Changed	Client Info			<b>Changed</b>	Not Changd	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
Glycol	WC Method			<b>NEG</b>	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	<b>55</b>	40	82
Chromium	ppm	ASTM D5185m	>20	<b>2</b>	2	6
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	<1
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	<1
Aluminum	ppm	ASTM D5185m	>20	<b>17</b>	13	42
Lead	ppm	ASTM D5185m	>40	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m	>330	<b>102</b>	130	▲ 419
Tin	ppm	ASTM D5185m	>15	<b>3</b>	2	7
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

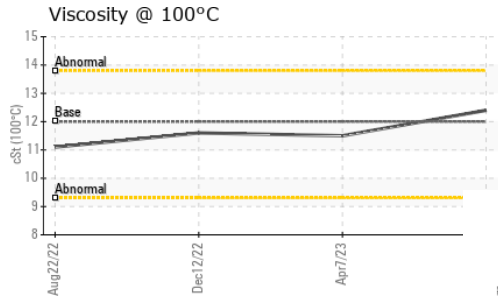
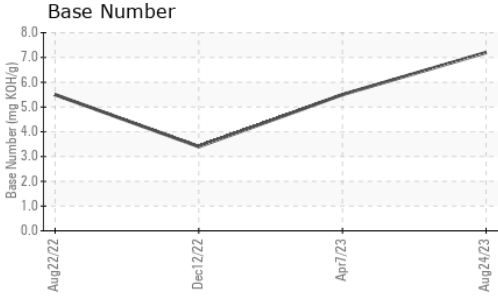
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	<b>14</b>	9	4
Barium	ppm	ASTM D5185m	0	<b>0</b>	2	2
Molybdenum	ppm	ASTM D5185m	50	<b>55</b>	57	41
Manganese	ppm	ASTM D5185m	0	<b>2</b>	2	5
Magnesium	ppm	ASTM D5185m	950	<b>782</b>	776	511
Calcium	ppm	ASTM D5185m	1050	<b>1362</b>	1227	1830
Phosphorus	ppm	ASTM D5185m	995	<b>970</b>	839	801
Zinc	ppm	ASTM D5185m	1180	<b>1271</b>	1099	975
Sulfur	ppm	ASTM D5185m	2600	<b>2724</b>	2188	2245

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>6</b>	5	8
Sodium	ppm	ASTM D5185m		<b>3</b>	2	6
Potassium	ppm	ASTM D5185m	>20	<b>31</b>	30	122

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	<b>1.1</b>	0.8	1.6
Nitration	Abs/cm	*ASTM D7624	>20	<b>10.7</b>	9.3	17.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>22.7</b>	20.0	31.0

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>20.4</b>	19.2	35.8
Base Number (BN)	mg KOH/g	ASTM D2896		<b>7.2</b>	5.5	▲ 3.4

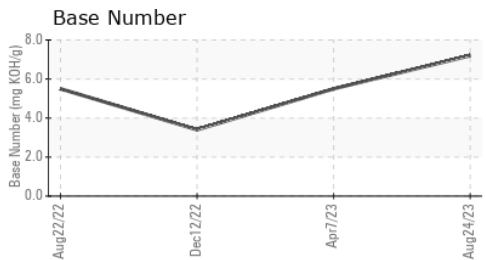
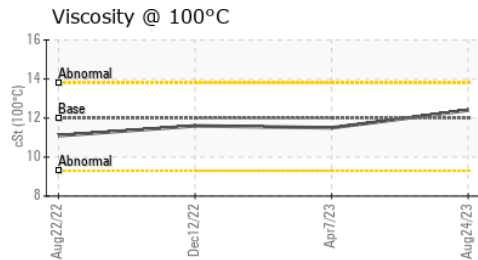
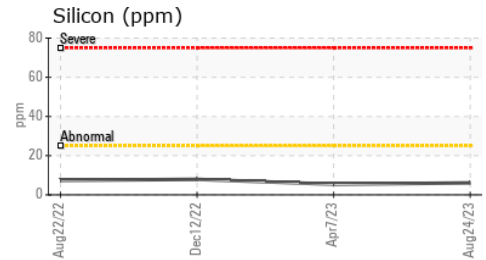
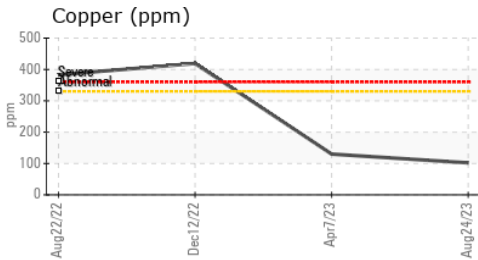
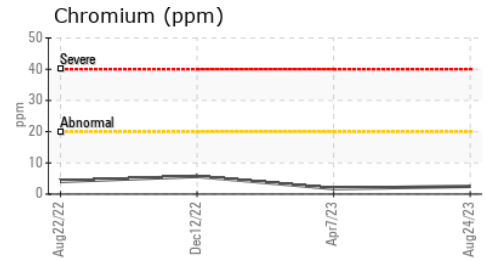
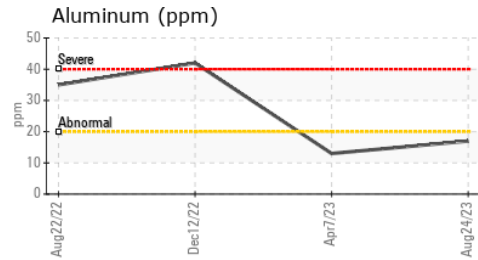
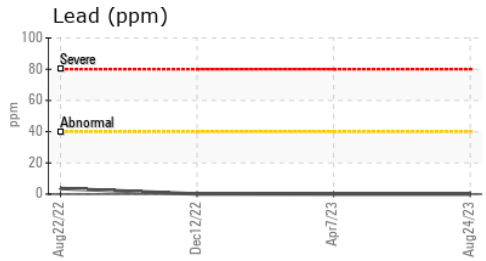
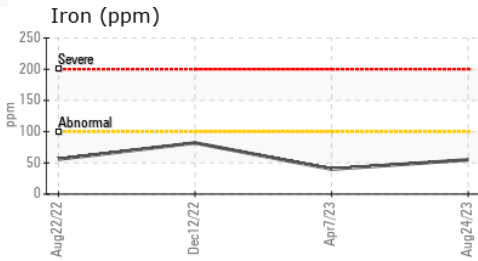
# OIL ANALYSIS REPORT



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	12.4	11.5

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0104224 **Received** : 30 Aug 2023  
**Lab Number** : 05938613 **Diagnosed** : 31 Aug 2023  
**Unique Number** : 10629225 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: TBN )

**MILLER TRUCK LEASING #119**  
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 mlongette@millertransgroup.com  
 T:  
 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)