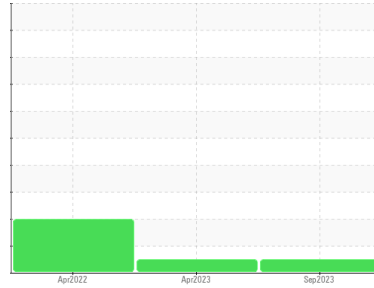


# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id  
**213727**

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>PCA0105331</b>	PCA0095757	PCA0067684
Sample Date	Client Info			<b>28 Sep 2023</b>	14 Apr 2023	28 Apr 2022
Machine Age	mls Client Info			<b>137084</b>	117020	22333
Oil Age	mls Client Info			<b>137084</b>	117020	22333
Oil Changed	Client Info			<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	ATTENTION

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>15</b>	19	121
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	7
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	0	1
Titanium	ppm	ASTM D5185m		<b>0</b>	5	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>20	<b>6</b>	9	▲ 76
Lead	ppm	ASTM D5185m	>40	<b>2</b>	0	12
Copper	ppm	ASTM D5185m	>330	<b>&lt;1</b>	2	42
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	5
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

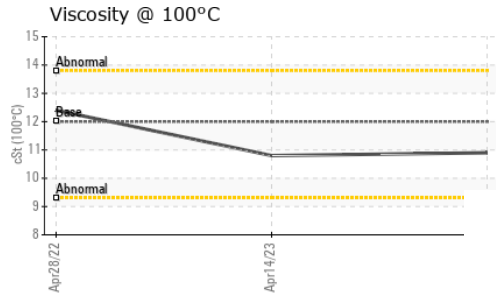
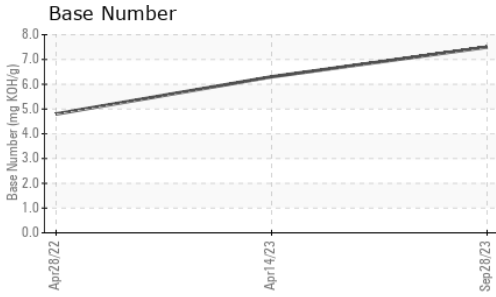
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	<b>2</b>	5	14
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	50	<b>60</b>	50	11
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	1	7
Magnesium	ppm	ASTM D5185m	950	<b>1006</b>	817	515
Calcium	ppm	ASTM D5185m	1050	<b>1265</b>	1108	1691
Phosphorus	ppm	ASTM D5185m	995	<b>1096</b>	917	749
Zinc	ppm	ASTM D5185m	1180	<b>1360</b>	1158	884
Sulfur	ppm	ASTM D5185m	2600	<b>3197</b>	2969	2541

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>4</b>	5	32
Sodium	ppm	ASTM D5185m		<b>3</b>	2	6
Potassium	ppm	ASTM D5185m	>20	<b>21</b>	28	▲ 210

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	<b>0.3</b>	0.4	0.8
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.5</b>	8.7	13.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.0</b>	19.1	27.6

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>16.8</b>	17.4	25.1
Base Number (BN)	mg KOH/g	ASTM D2896		<b>7.5</b>	6.3	4.8

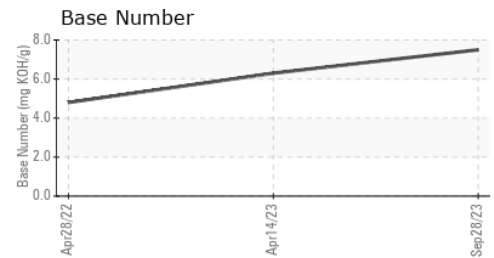
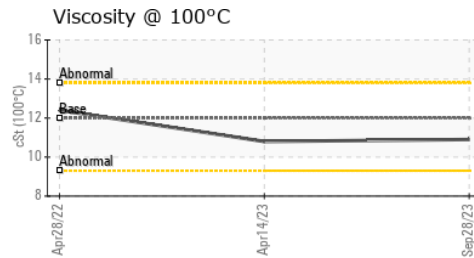
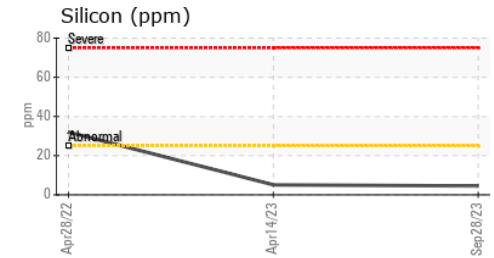
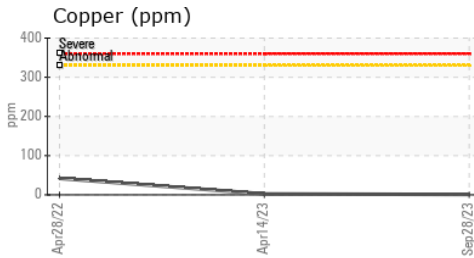
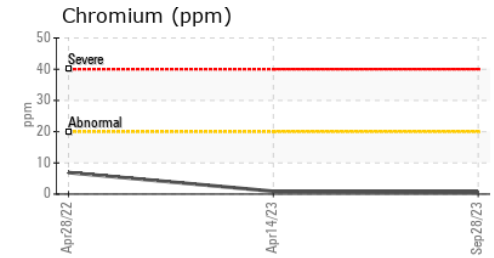
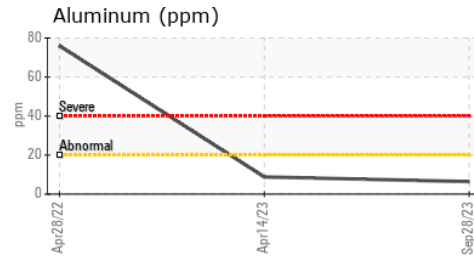
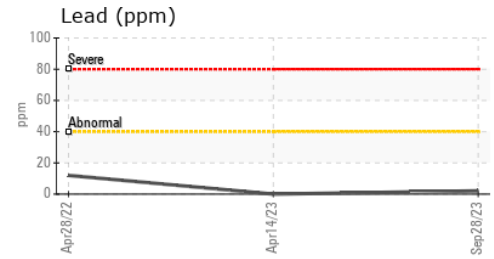
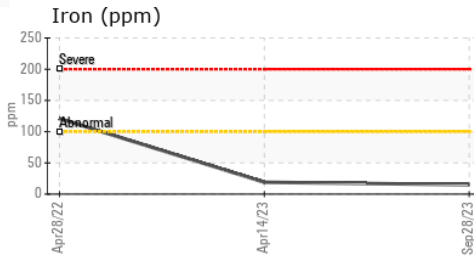
# OIL ANALYSIS REPORT



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	10.9	10.8

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0105331 **Received** : 04 Oct 2023  
**Lab Number** : 05968769 **Diagnosed** : 04 Oct 2023  
**Unique Number** : 10675320 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: TBN )

**MILLER TRUCK LEASING #118**  
 2196 BENNETT ROAD  
 PHILADELPHIA, PA  
 US 19116  
 Contact: ROSTY VITER  
 rviter@millertransgroup.com  
 T: (215)552-9832  
 F: (215)552-9892

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)