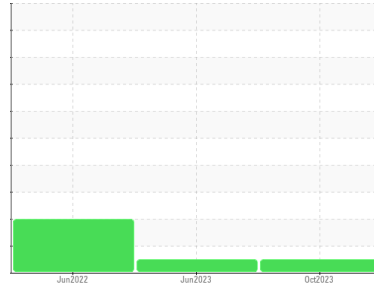


# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**222694**  
 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>PCA0099682</b>	PCA0091418	PCA0068644
Sample Date	Client Info		<b>25 Oct 2023</b>	28 Jun 2023	10 Jun 2022
Machine Age	mls	Client Info	<b>61198</b>	83590	18165
Oil Age	mls	Client Info	<b>7608</b>	18052	18165
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
Water	WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol	WC Method		<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	<b>39</b>	66	59
Chromium	ppm	ASTM D5185m >20	<b>6</b>	3	3
Nickel	ppm	ASTM D5185m >4	<b>&lt;1</b>	1	0
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m >3	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m >20	<b>29</b>	29	▲ 33
Lead	ppm	ASTM D5185m >40	<b>1</b>	<1	<1
Copper	ppm	ASTM D5185m >330	<b>9</b>	47	41
Tin	ppm	ASTM D5185m >15	<b>3</b>	5	4
Vanadium	ppm	ASTM D5185m	<b>0</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>28</b>	6	28
Barium	ppm	ASTM D5185m 0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m 50	<b>45</b>	63	42
Manganese	ppm	ASTM D5185m 0	<b>4</b>	8	7
Magnesium	ppm	ASTM D5185m 950	<b>685</b>	894	472
Calcium	ppm	ASTM D5185m 1050	<b>1537</b>	1270	1755
Phosphorus	ppm	ASTM D5185m 995	<b>1063</b>	913	736
Zinc	ppm	ASTM D5185m 1180	<b>1217</b>	1189	926
Sulfur	ppm	ASTM D5185m 2600	<b>3985</b>	2966	2159

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>20</b>	10	12
Sodium	ppm	ASTM D5185m	<b>&lt;1</b>	6	6
Potassium	ppm	ASTM D5185m >20	<b>3</b>	68	▲ 102

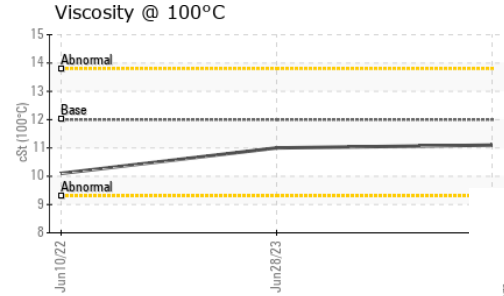
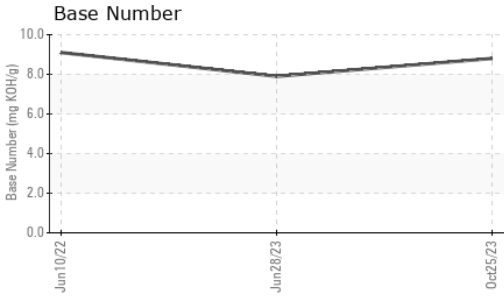
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.3</b>	0.7	0.5
Nitration	Abs/cm	*ASTM D7624 >20	<b>6.7</b>	10.2	11.2
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>18.1</b>	21.4	25.3

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>13.6</b>	17.8	24.7
Base Number (BN)	mg KOH/g	ASTM D2896	<b>8.8</b>	7.9	9.1

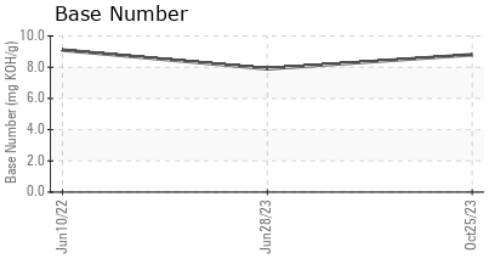
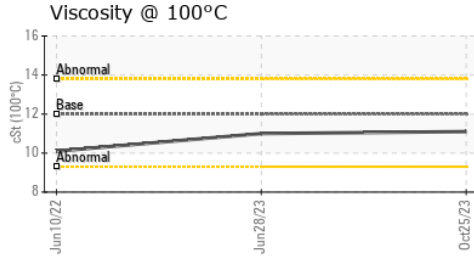
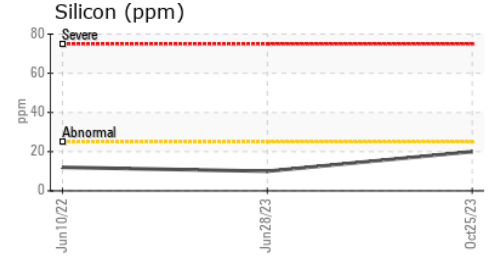
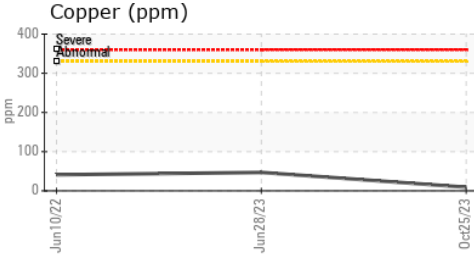
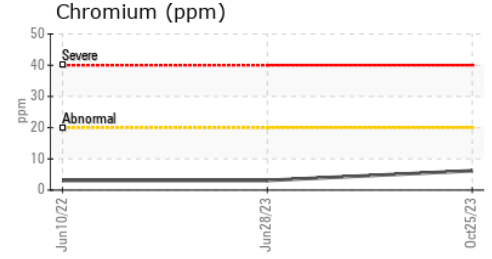
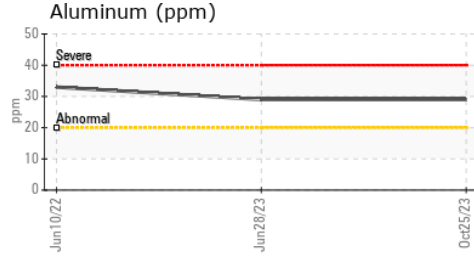
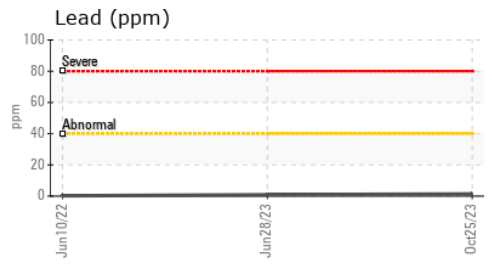
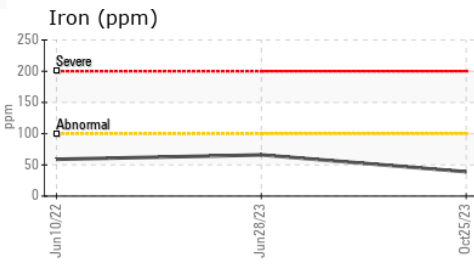
# OIL ANALYSIS REPORT



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	11.1	11.0

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0099682 **Received** : 07 Dec 2023  
**Lab Number** : 06027345 **Diagnosed** : 08 Dec 2023  
**Unique Number** : 10777136 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: TBN )

**MILLER TRUCK LEASING #121**  
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 NEW BRUNSWICK, NJ  
 US 08901  
 Contact: Anthony Cursi  
 acursi@millertransgroup.com  
 T: (732)358-4027  
 F: (732)400-8475

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)