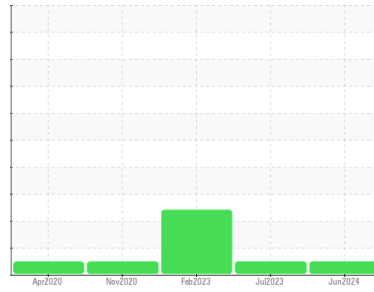


# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id  
**209547**  
 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>PCA0125184</b>	PCA0100805	PCA0093278
Sample Date	Client Info		<b>10 Jun 2024</b>	18 Jul 2023	20 Feb 2023
Machine Age	mls Client Info		<b>162034</b>	10879	122877
Oil Age	mls Client Info		<b>162034</b>	10879	122877
Oil Changed	Client Info		<b>N/A</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>34</b>	32	5
Chromium	ppm ASTM D5185m	>20	<b>&lt;1</b>	<1	0
Nickel	ppm ASTM D5185m	>4	<b>&lt;1</b>	0	0
Titanium	ppm ASTM D5185m		<b>13</b>	12	65
Silver	ppm ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm ASTM D5185m	>20	<b>8</b>	7	<1
Lead	ppm ASTM D5185m	>40	<b>2</b>	<1	<1
Copper	ppm ASTM D5185m	>330	<b>2</b>	1	0
Tin	ppm ASTM D5185m	>15	<b>&lt;1</b>	<1	<1
Antimony	ppm ASTM D5185m		<b>---</b>	---	---
Vanadium	ppm ASTM D5185m		<b>&lt;1</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>25</b>	9	● 131
Barium	ppm ASTM D5185m	0	<b>0</b>	1	0
Molybdenum	ppm ASTM D5185m	50	<b>50</b>	53	● 14
Manganese	ppm ASTM D5185m	0	<b>&lt;1</b>	<1	<1
Magnesium	ppm ASTM D5185m	950	<b>891</b>	826	● 502
Calcium	ppm ASTM D5185m	1050	<b>1233</b>	1255	● 1862
Phosphorus	ppm ASTM D5185m	995	<b>1109</b>	1033	1054
Zinc	ppm ASTM D5185m	1180	<b>1322</b>	1221	1296
Sulfur	ppm ASTM D5185m	2600	<b>3820</b>	3370	● 4438

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m	>25	<b>5</b>	4	6
Sodium	ppm ASTM D5185m		<b>7</b>	3	<1
Potassium	ppm ASTM D5185m	>20	<b>8</b>	8	5

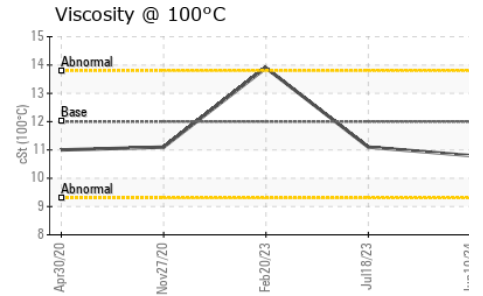
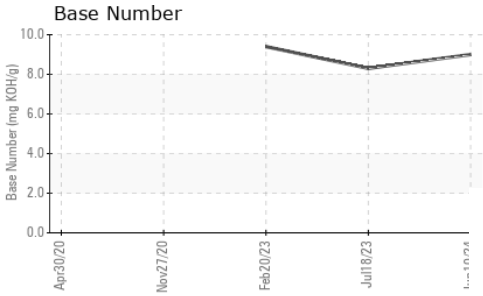
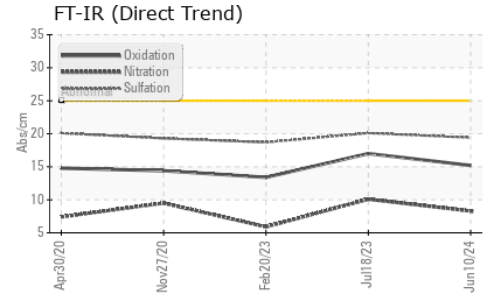
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	% *ASTM D7844	>3	<b>0.7</b>	0.9	0.1
Nitration	Abs/cm *ASTM D7624	>20	<b>8.3</b>	10.1	5.9
Sulfation	Abs/.1mm *ASTM D7415	>30	<b>19.4</b>	20.1	18.7

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414	>25	<b>15.2</b>	17.0	13.4
Base Number (BN)	mg KOH/g ASTM D2896		<b>9.0</b>	8.3	9.4

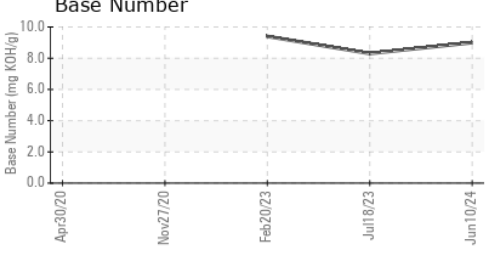
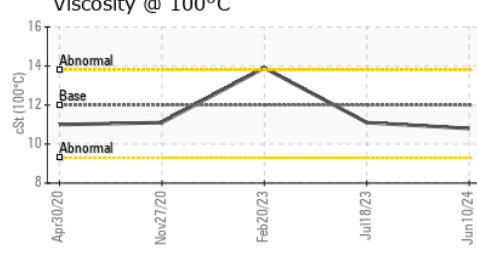
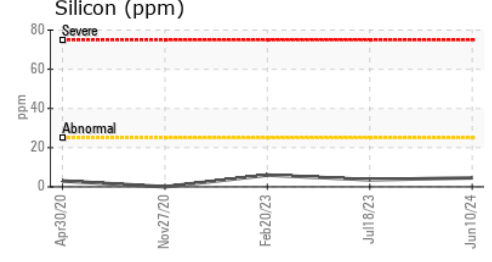
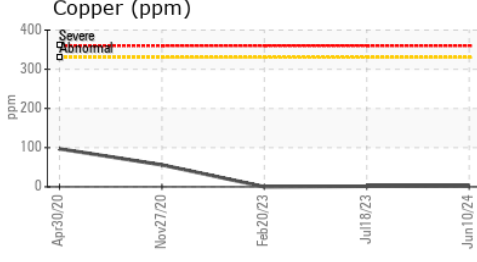
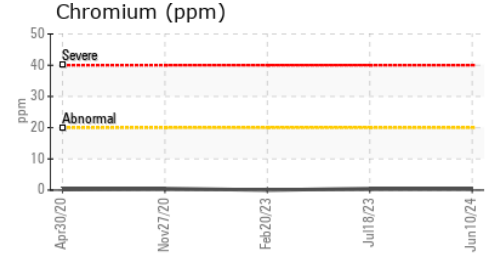
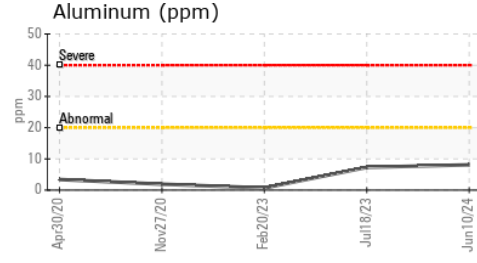
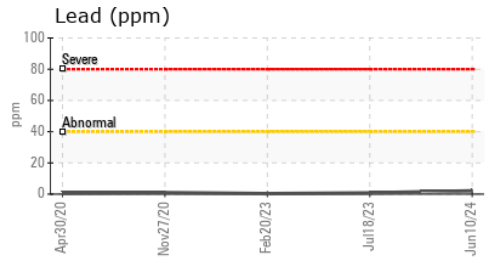
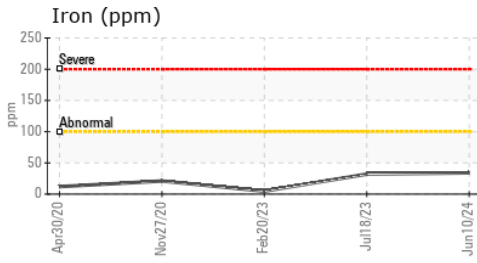
# OIL ANALYSIS REPORT



PARAMETER	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	10.8	11.1

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0125184      **Received** : 27 Jun 2024  
**Lab Number** : 06222049      **Tested** : 27 Jun 2024  
**Unique Number** : 11100246      **Diagnosed** : 27 Jun 2024 - 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)