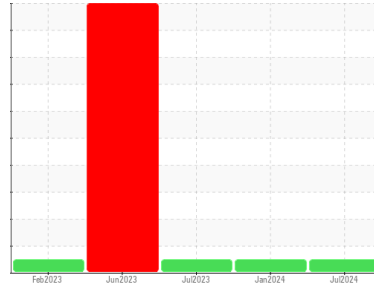


# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**734062**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 10W30 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### 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>PCA0129051</b>	PCA0114559	PCA0100785
Sample Date	Client Info		<b>06 Jul 2024</b>	27 Jan 2024	28 Jul 2023
Machine Age	mls	Client Info	<b>235088</b>	0	0
Oil Age	mls	Client Info	<b>235088</b>	0	0
Oil Changed	Client Info		<b>Changed</b>	Not Changd	N/A
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
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>58</b>	81	30
Chromium	ppm	ASTM D5185m >20	<b>3</b>	6	4
Nickel	ppm	ASTM D5185m >4	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185m	<b>14</b>	1	<1
Silver	ppm	ASTM D5185m >3	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m >20	<b>18</b>	57	36
Lead	ppm	ASTM D5185m >40	<b>0</b>	0	0
Copper	ppm	ASTM D5185m >330	<b>42</b>	51	51
Tin	ppm	ASTM D5185m >15	<b>2</b>	3	1
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>8</b>	6	11
Barium	ppm	ASTM D5185m 0	<b>0</b>	0	2
Molybdenum	ppm	ASTM D5185m 50	<b>53</b>	60	56
Manganese	ppm	ASTM D5185m 0	<b>&lt;1</b>	2	1
Magnesium	ppm	ASTM D5185m 950	<b>901</b>	917	817
Calcium	ppm	ASTM D5185m 1050	<b>1352</b>	1333	1270
Phosphorus	ppm	ASTM D5185m 995	<b>1073</b>	973	949
Zinc	ppm	ASTM D5185m 1180	<b>1358</b>	1225	1130
Sulfur	ppm	ASTM D5185m 2600	<b>3007</b>	2186	2806

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>15</b>	8	5
Sodium	ppm	ASTM D5185m	<b>3</b>	5	2
Potassium	ppm	ASTM D5185m >20	<b>37</b>	120	68

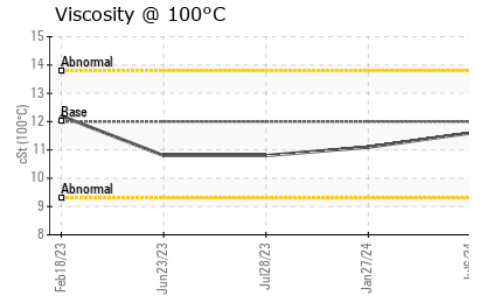
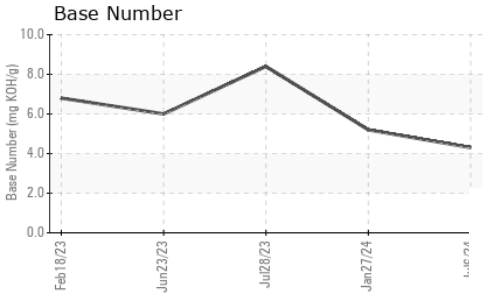
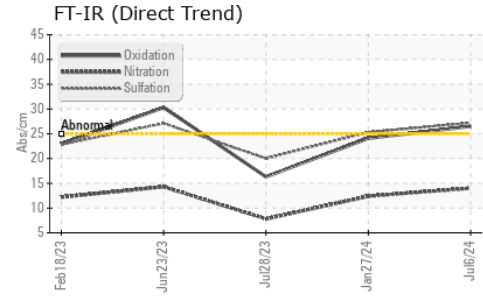
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>1.7</b>	1.6	0.5
Nitration	Abs/cm	*ASTM D7624 >20	<b>14.0</b>	12.4	7.8
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>27.2</b>	25.3	20.0

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>26.5</b>	24.1	16.3
Base Number (BN)	mg KOH/g	ASTM D2896	<b>4.3</b>	5.2	8.4

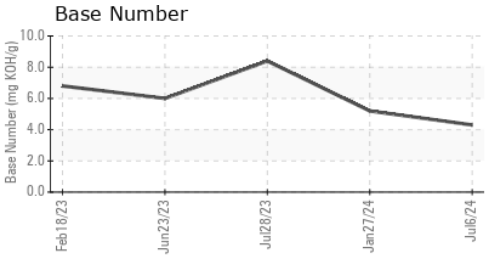
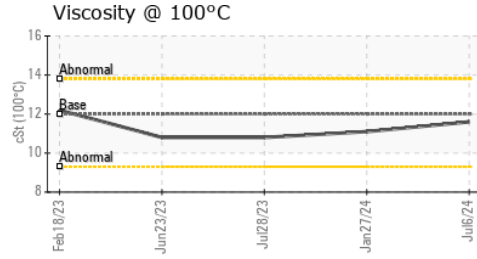
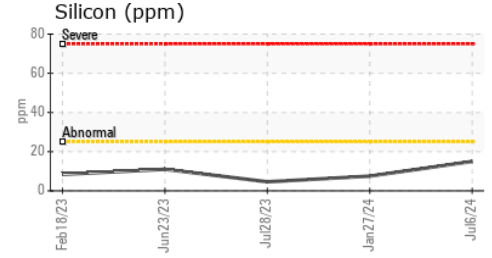
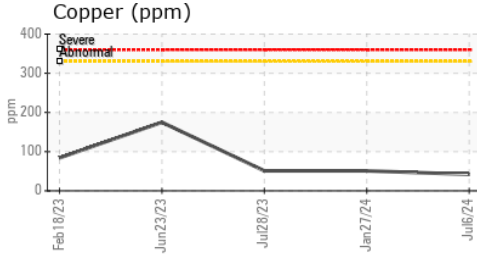
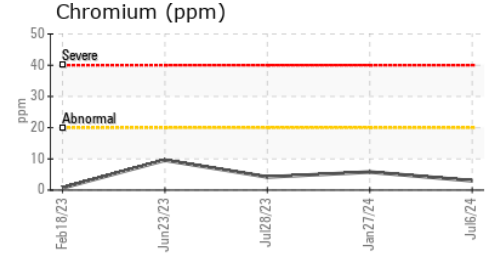
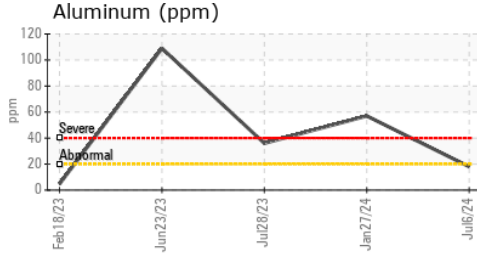
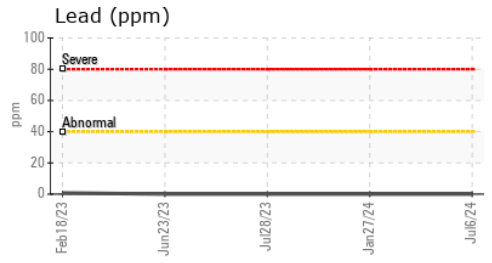
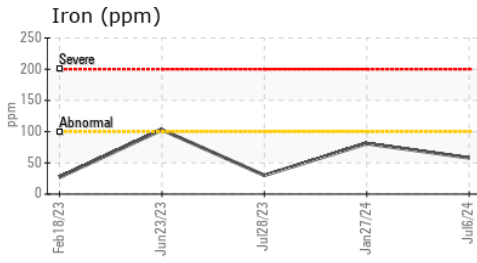
# OIL ANALYSIS REPORT



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	11.6	11.1

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0129051      **Received** : 12 Jul 2024  
**Lab Number** : 06234446      **Tested** : 12 Jul 2024  
**Unique Number** : 11123280      **Diagnosed** : 14 Jul 2024 - Don Baldrige  
**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)