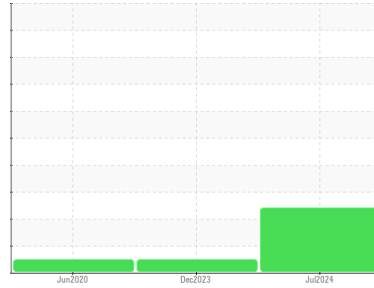


# OIL ANALYSIS REPORT

## Sample Rating Trend



**GLYCOL**



Machine Id

**513413**

Component

**Diesel Engine**

Fluid

**PETRO CANADA DURON SHP 10W30 (--- GAL)**

## DIAGNOSIS

### Recommendation

We advise that you check for the source of the coolant leak. Check for low coolant level. We recommend an early resample to monitor this condition.

### Wear

All component wear rates are normal.

### Contamination

Sodium and/or potassium levels are high.

### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PCA0129049</b>	PCA0114610	PCA0026179
Sample Date	Client Info		<b>03 Jul 2024</b>	18 Dec 2023	15 Jun 2020
Machine Age	mls	Client Info	<b>171347</b>	224547	11280
Oil Age	mls	Client Info	<b>171347</b>	224547	11280
Oil Changed		Client Info	<b>N/A</b>	Changed	Changed
Sample Status			<b>ABNORMAL</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

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	<b>46</b>	53	52
Chromium	ppm	ASTM D5185m >20	<b>2</b>	2	1
Nickel	ppm	ASTM D5185m >4	<b>&lt;1</b>	1	1
Titanium	ppm	ASTM D5185m	<b>3</b>	1	0
Silver	ppm	ASTM D5185m >3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >20	<b>20</b>	7	13
Lead	ppm	ASTM D5185m >40	<b>0</b>	0	0
Copper	ppm	ASTM D5185m >330	<b>4</b>	11	20
Tin	ppm	ASTM D5185m >15	<b>1</b>	2	2
Antimony	ppm	ASTM D5185m	<b>---</b>	---	0
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>8</b>	6	63
Barium	ppm	ASTM D5185m 0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m 50	<b>65</b>	59	9
Manganese	ppm	ASTM D5185m 0	<b>&lt;1</b>	3	5
Magnesium	ppm	ASTM D5185m 950	<b>935</b>	865	692
Calcium	ppm	ASTM D5185m 1050	<b>1234</b>	1269	1339
Phosphorus	ppm	ASTM D5185m 995	<b>1089</b>	1002	717
Zinc	ppm	ASTM D5185m 1180	<b>1346</b>	1272	771
Sulfur	ppm	ASTM D5185m 2600	<b>3816</b>	2826	2103

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>8</b>	10	15
Sodium	ppm	ASTM D5185m	<b>▲ 31</b>	7	6
Potassium	ppm	ASTM D5185m >20	<b>▲ 258</b>	11	49
Glycol	%	*ASTM D2982	<b>NEG</b>	NEG	NEG

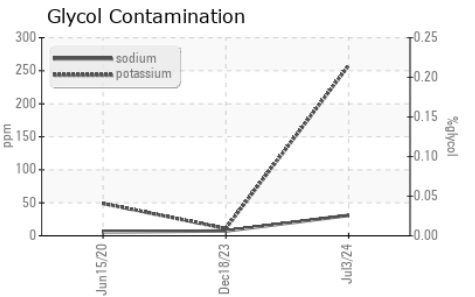
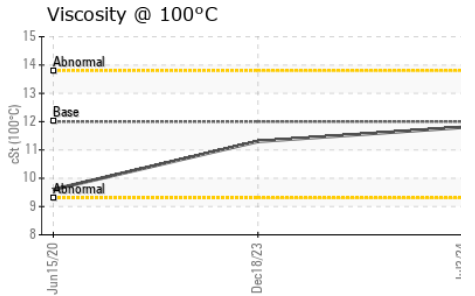
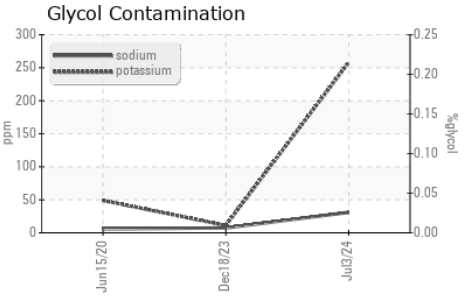
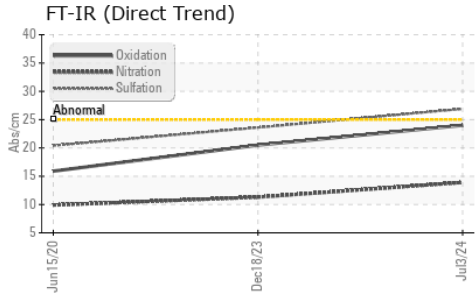
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>1.3</b>	1.1	0.3
Nitration	Abs/cm	*ASTM D7624 >20	<b>13.9</b>	11.3	9.9
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>26.9</b>	23.6	20.4

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>24.0</b>	20.5	15.9
Base Number (BN)	mg KOH/g	ASTM D2896	<b>6.4</b>	6.9	---

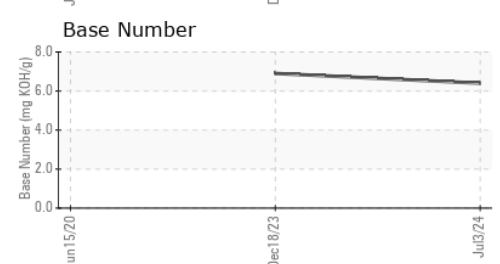
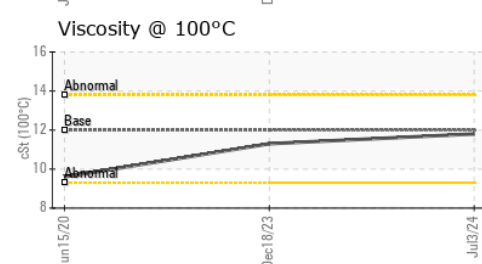
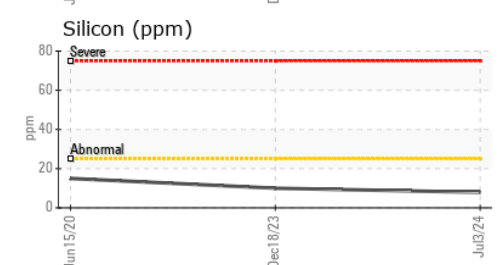
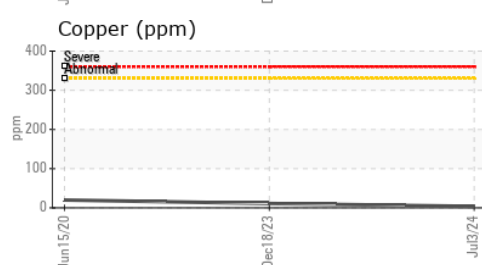
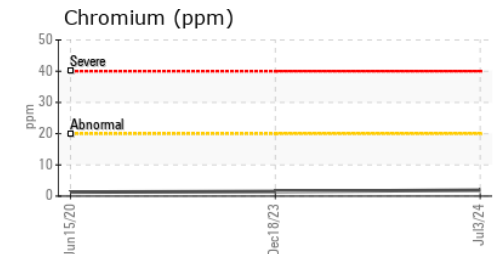
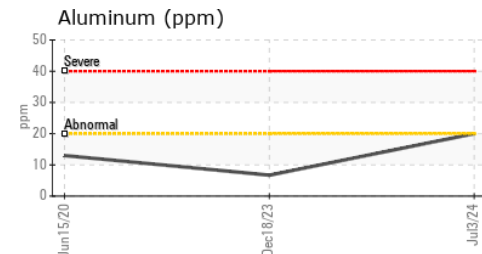
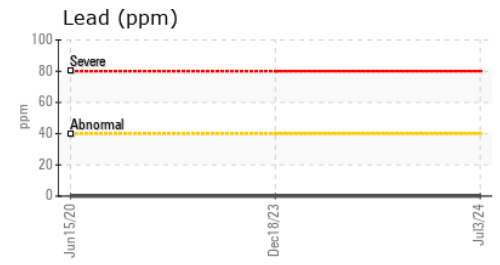
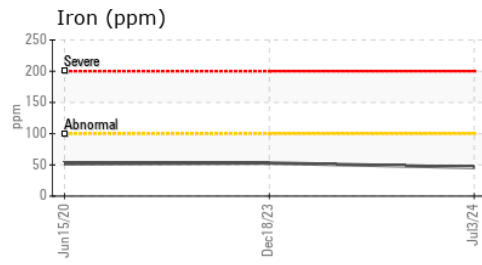
# OIL ANALYSIS REPORT



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	11.8	11.3

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0129049      **Received** : 12 Jul 2024  
**Lab Number** : **06234458**      **Tested** : 16 Jul 2024  
**Unique Number** : 11123292      **Diagnosed** : 16 Jul 2024 - Jonathan Hester  
**Test Package** : MOB 1 ( Additional Tests: Glycol, TBN )

**MILLER TRUCK LEASING #118**  
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 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)