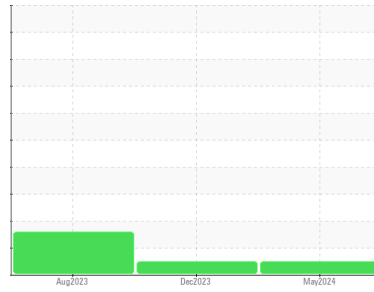


# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id  
**130178M**  
 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>PCA0121036</b>	PCA0113649	PCA0100939
Sample Date	Client Info		<b>03 May 2024</b>	12 Dec 2023	22 Aug 2023
Machine Age	mls	Client Info	<b>55768</b>	0	6736
Oil Age	mls	Client Info	<b>13069</b>	0	6736
Oil Changed		Client Info	<b>Changed</b>	Changed	Changed
Sample Status			<b>NORMAL</b>	NORMAL	ABNORMAL

## 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>42</b>	56	116
Chromium	ppm	ASTM D5185m >20	<b>&lt;1</b>	0	2
Nickel	ppm	ASTM D5185m >4	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m	<b>0</b>	0	<1
Silver	ppm	ASTM D5185m >3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >20	<b>3</b>	5	15
Lead	ppm	ASTM D5185m >40	<b>1</b>	2	3
Copper	ppm	ASTM D5185m >330	<b>17</b>	142	299
Tin	ppm	ASTM D5185m >15	<b>1</b>	0	6
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	<1
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	<b>2</b>	8	48
Barium	ppm	ASTM D5185m 0	<b>0</b>	0	5
Molybdenum	ppm	ASTM D5185m 50	<b>67</b>	63	10
Manganese	ppm	ASTM D5185m 0	<b>&lt;1</b>	<1	5
Magnesium	ppm	ASTM D5185m 950	<b>1080</b>	890	85
Calcium	ppm	ASTM D5185m 1050	<b>1264</b>	1463	1290
Phosphorus	ppm	ASTM D5185m 995	<b>1102</b>	1151	897
Zinc	ppm	ASTM D5185m 1180	<b>1408</b>	1473	1237
Sulfur	ppm	ASTM D5185m 2600	<b>3440</b>	3553	3190

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>6</b>	15	▲ 51
Sodium	ppm	ASTM D5185m	<b>3</b>	3	5
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	3	8

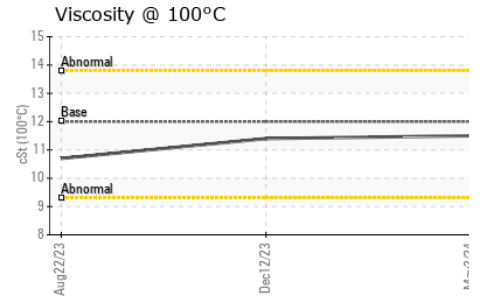
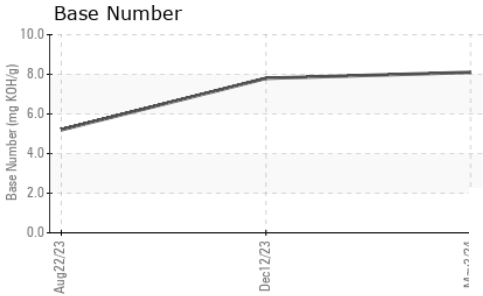
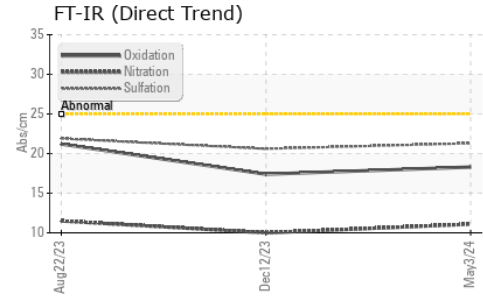
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>1</b>	0.7	0.8
Nitration	Abs/cm	*ASTM D7624 >20	<b>11.1</b>	10.0	11.5
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>21.3</b>	20.6	21.9

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>18.3</b>	17.4	21.2
Base Number (BN)	mg KOH/g	ASTM D2896	<b>8.1</b>	7.8	5.2

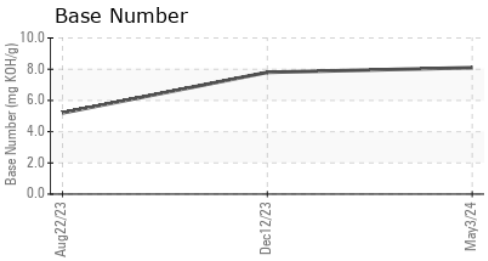
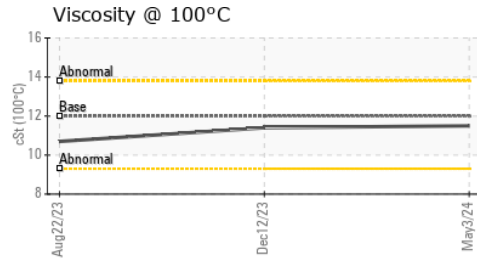
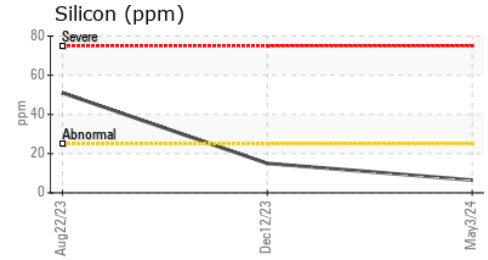
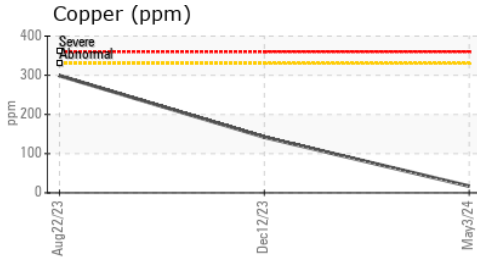
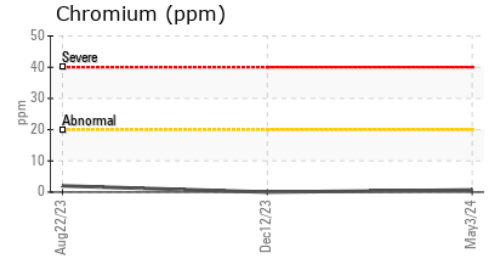
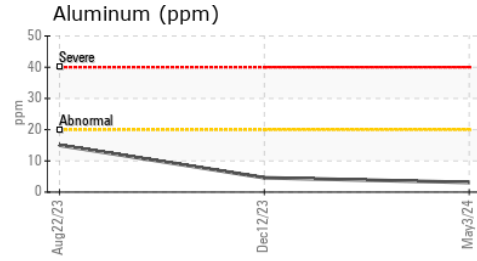
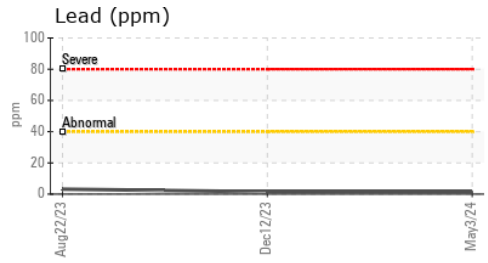
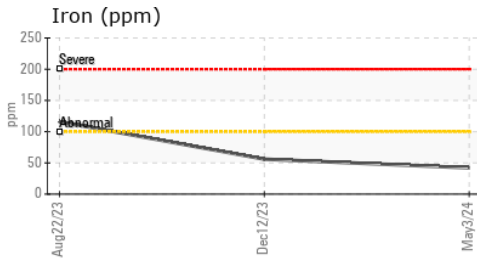
# OIL ANALYSIS REPORT



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	<b>11.5</b>	11.4	10.7

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0121036      **Received** : 07 Jun 2024  
**Lab Number** : **06202453**      **Tested** : 11 Jun 2024  
**Unique Number** : 11069914      **Diagnosed** : 11 Jun 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: TBN )

**MILLER TRUCK LEASING #114**  
 63 REPAUPO STATION ROAD  
 LOGAN TOWNSHIP, NJ  
 US 08085  
 Contact: ED DAVIS  
 edavis@millertransgroup.com  
 T: (856)214-3521  
 F: (856)214-3663

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)