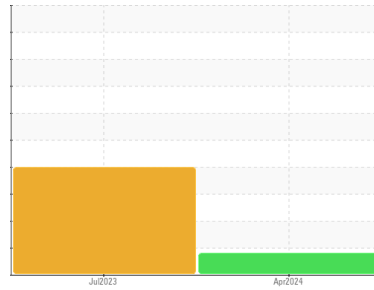


# OIL ANALYSIS REPORT

## Sample Rating Trend



**WEAR**



Machine Id  
**302819**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 10W30 (--- GAL)**

## DIAGNOSIS

### ▲ Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

### ▲ Wear

The aluminum level has decreased, but is still abnormal.

### 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>PCA0105620</b>	PCA0099101	---
Sample Date	Client Info			<b>02 Apr 2024</b>	27 Jul 2023	---
Machine Age	mls	Client Info		<b>143230</b>	0	---
Oil Age	mls	Client Info		<b>0</b>	0	---
Oil Changed	Client Info			<b>N/A</b>	Changed	---
Sample Status				<b>MARGINAL</b>	ABNORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>5		<b>&lt;1.0</b>	<1.0	---
Water	WC Method	>0.2		<b>NEG</b>	NEG	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	<b>51</b>	▲ 115	---
Chromium	ppm	ASTM D5185m	>20	<b>1</b>	3	---
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	<1	---
Titanium	ppm	ASTM D5185m		<b>0</b>	0	---
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>20	▲ <b>32</b>	▲ 66	---
Lead	ppm	ASTM D5185m	>40	<b>0</b>	0	---
Copper	ppm	ASTM D5185m	>330	<b>5</b>	6	---
Tin	ppm	ASTM D5185m	>15	<b>0</b>	0	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	---

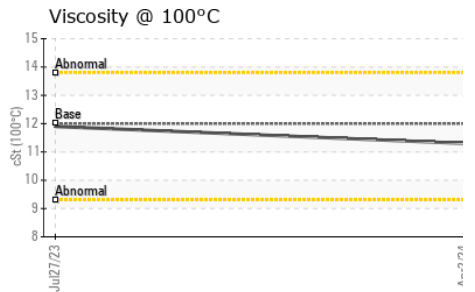
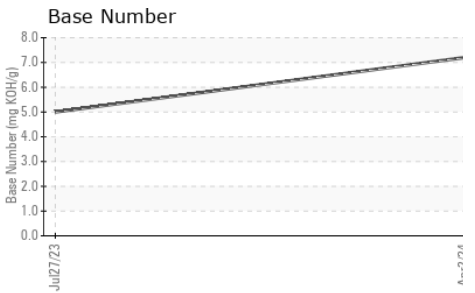
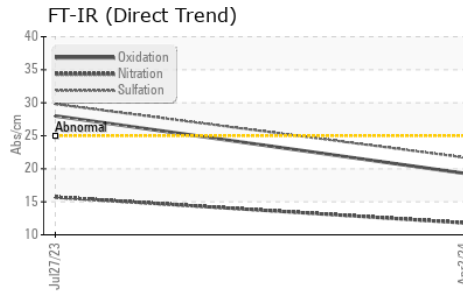
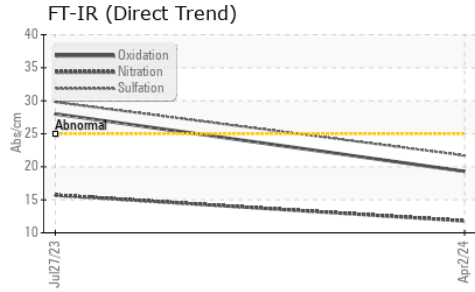
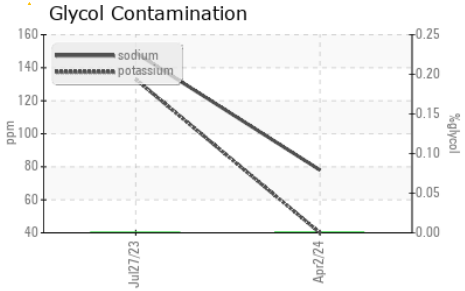
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	<b>8</b>	0	---
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	50	<b>73</b>	96	---
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	2	---
Magnesium	ppm	ASTM D5185m	950	<b>924</b>	1137	---
Calcium	ppm	ASTM D5185m	1050	<b>1147</b>	1312	---
Phosphorus	ppm	ASTM D5185m	995	<b>1037</b>	1165	---
Zinc	ppm	ASTM D5185m	1180	<b>1258</b>	1494	---
Sulfur	ppm	ASTM D5185m	2600	<b>3143</b>	3526	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>6</b>	8	---
Sodium	ppm	ASTM D5185m		<b>78</b>	▲ 149	---
Potassium	ppm	ASTM D5185m	>20	<b>40</b>	▲ 133	---
Glycol	%	*ASTM D2982		<b>0.0</b>	0.0	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	<b>0.8</b>	1.3	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>11.8</b>	15.7	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.7</b>	29.8	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>19.3</b>	28.0	---
Base Number (BN)	mg KOH/g	ASTM D2896		<b>7.2</b>	5.0	---

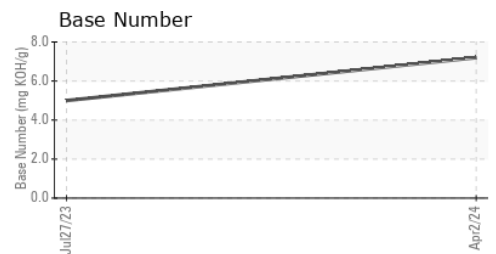
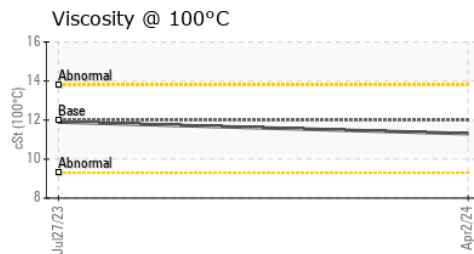
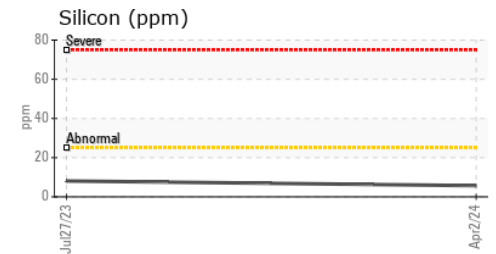
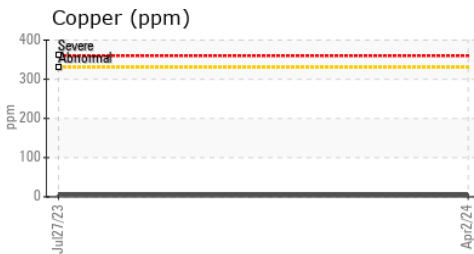
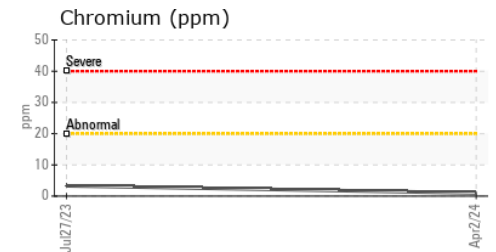
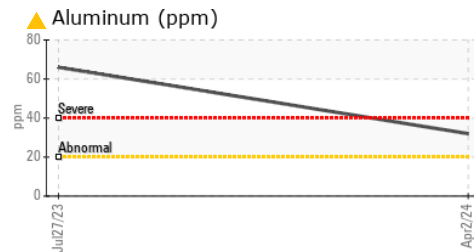
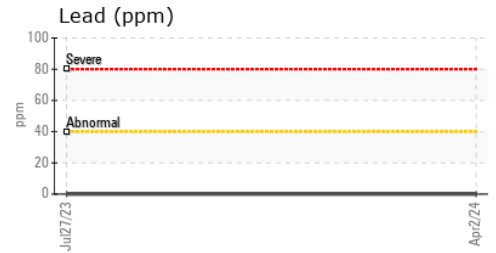
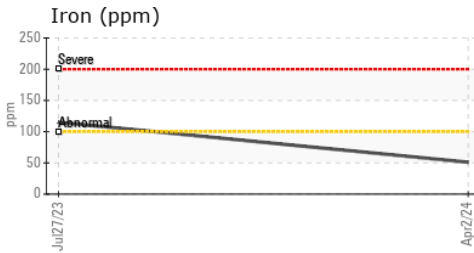
# OIL ANALYSIS REPORT



PARAMETER	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---

PARAMETER	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.00	11.3	11.9

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0105620 **Received** : 15 Apr 2024  
**Lab Number** : 06148247 **Tested** : 17 Apr 2024  
**Unique Number** : 10978325 **Diagnosed** : 17 Apr 2024 - Jonathan Hester  
**Test Package** : MOB 1 ( Additional Tests: Glycol, TBN )

**MILLER TRUCK LEASING #116**  
 1197 NORTH MAIN ROAD  
 VINELAND, NJ  
 US 08360

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Contact: GARY PRICE  
 gprice@millertransgroup.com

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

T: (856)696-4848

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: (856)696-5629