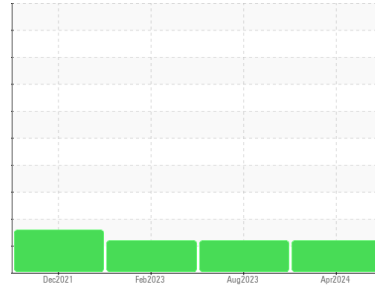


# OIL ANALYSIS REPORT

## Sample Rating Trend



**DEGRADATION**



Machine Id  
**719682**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 10W30 (--- GAL)**

## DIAGNOSIS

### ▲ Recommendation

Oil and filter change at the time of sampling has been noted. 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 level is low. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>PCA0121441</b>	PCA0102874	PCA0093286
Sample Date	Client Info			<b>12 Apr 2024</b>	09 Aug 2023	22 Feb 2023
Machine Age	mls	Client Info		<b>478028</b>	347426	293011
Oil Age	mls	Client Info		<b>478028</b>	347426	0
Oil Changed	Client Info			<b>Changed</b>	Not Changd	Changed
Sample Status				<b>ABNORMAL</b>	ABNORMAL	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>46</b>	52	98
Chromium	ppm	ASTM D5185m	>20	<b>2</b>	2	5
Nickel	ppm	ASTM D5185m	>4	<b>1</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>14</b>	3	<1
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>14</b>	5	10
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	0	<1
Copper	ppm	ASTM D5185m	>330	<b>10</b>	10	26
Tin	ppm	ASTM D5185m	>15	<b>2</b>	<1	2
Antimony	ppm	ASTM D5185m		<b>---</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Cadmium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0

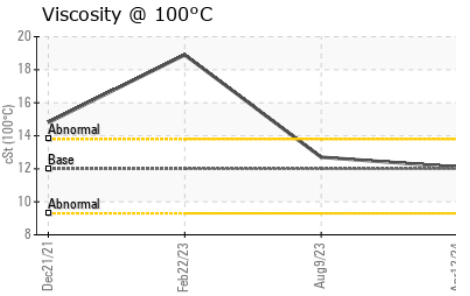
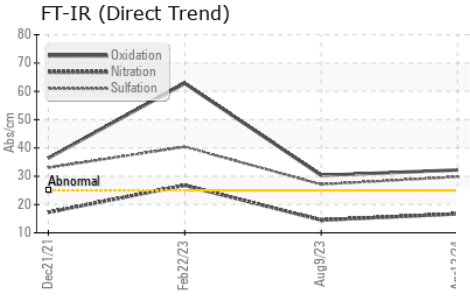
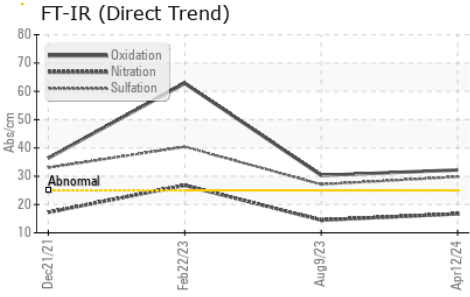
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	<b>3</b>	7	17
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	50	<b>55</b>	67	112
Manganese	ppm	ASTM D5185m	0	<b>1</b>	1	2
Magnesium	ppm	ASTM D5185m	950	<b>829</b>	947	808
Calcium	ppm	ASTM D5185m	1050	<b>1276</b>	1381	1755
Phosphorus	ppm	ASTM D5185m	995	<b>897</b>	1025	853
Zinc	ppm	ASTM D5185m	1180	<b>1250</b>	1249	1108
Sulfur	ppm	ASTM D5185m	2600	<b>2568</b>	3174	2388

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>8</b>	5	11
Sodium	ppm	ASTM D5185m		<b>2</b>	6	12
Potassium	ppm	ASTM D5185m	>20	<b>6</b>	6	9

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	<b>1</b>	0.8	▲ 3.7
Nitration	Abs/cm	*ASTM D7624	>20	<b>16.7</b>	14.5	26.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>29.8</b>	27.1	40.4

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>32.2</b>	30.3	62.8
Base Number (BN)	mg KOH/g	ASTM D2896		▲ <b>2.5</b>	▲ 3.4	---

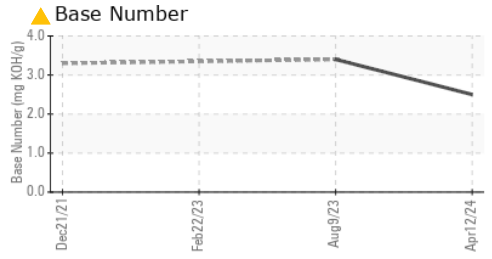
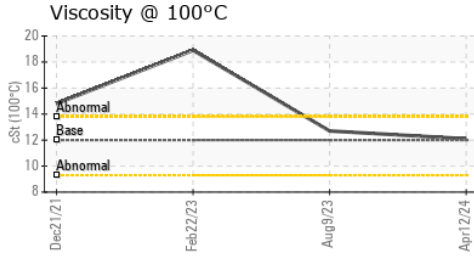
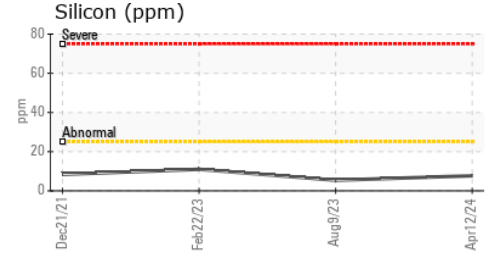
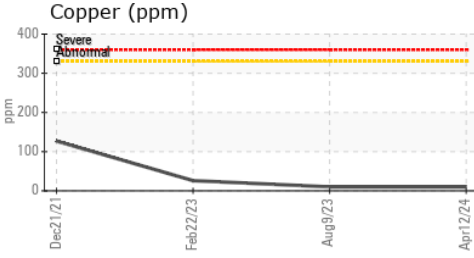
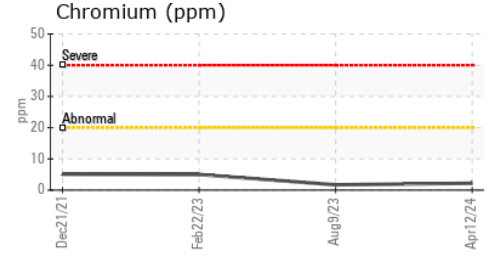
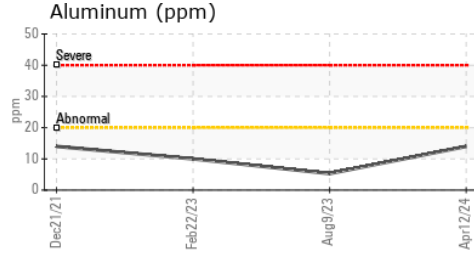
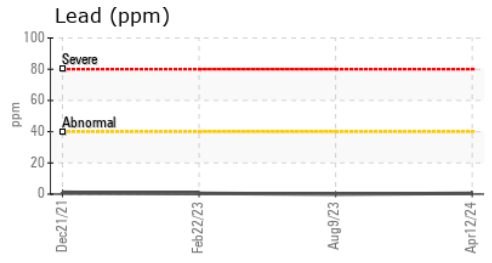
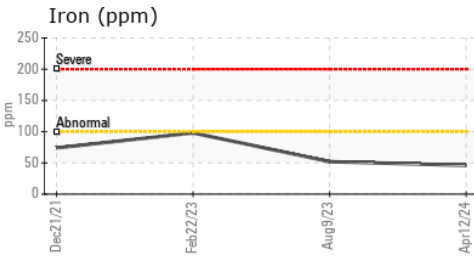
# OIL ANALYSIS REPORT



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	12.1	12.7 ▲ 18.9

### GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0121441      **Received** : 23 Apr 2024  
**Lab Number** : 06157266      **Tested** : 24 Apr 2024  
**Unique Number** : 10992689      **Diagnosed** : 25 Apr 2024 - Jonathan Hester  
**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)