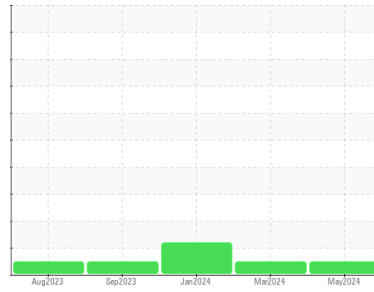


# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**

Machine Id

**731571**

Component

**Diesel Engine**

Fluid

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

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

### 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>PCA0125191</b>	PCA0119017	PCA0114545
Sample Date	Client Info			<b>24 May 2024</b>	05 Mar 2024	09 Jan 2024
Machine Age	mls	Client Info		<b>447060</b>	424473	122163
Oil Age	mls	Client Info		<b>447060</b>	0	122163
Oil Changed	Client Info			<b>Not Changed</b>	Not 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>26</b>	41	83
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	1	3
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>15</b>	18	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>7</b>	11	12
Lead	ppm	ASTM D5185m	>40	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>330	<b>11</b>	7	7
Tin	ppm	ASTM D5185m	>15	<b>2</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

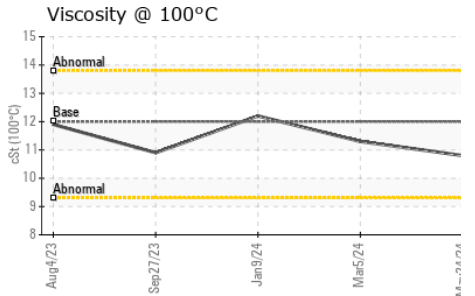
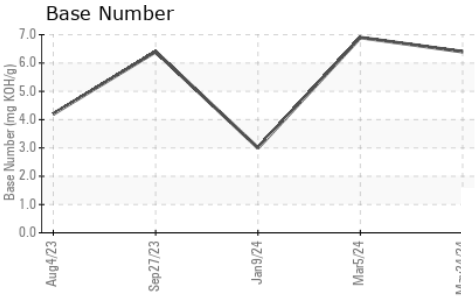
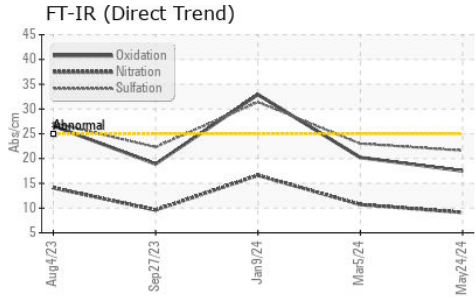
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	<b>18</b>	11	2
Barium	ppm	ASTM D5185m	0	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m	50	<b>51</b>	54	65
Manganese	ppm	ASTM D5185m	0	<b>1</b>	0	1
Magnesium	ppm	ASTM D5185m	950	<b>858</b>	898	1002
Calcium	ppm	ASTM D5185m	1050	<b>1245</b>	1346	1258
Phosphorus	ppm	ASTM D5185m	995	<b>1053</b>	1189	1136
Zinc	ppm	ASTM D5185m	1180	<b>1230</b>	1335	1397
Sulfur	ppm	ASTM D5185m	2600	<b>3258</b>	3372	2447

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>6</b>	7	13
Sodium	ppm	ASTM D5185m		<b>2</b>	0	1
Potassium	ppm	ASTM D5185m	>20	<b>6</b>	19	18

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	<b>0.8</b>	1.2	2.3
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.1</b>	10.7	16.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.6</b>	23.0	31.4

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>17.5</b>	20.2	32.9
Base Number (BN)	mg KOH/g	ASTM D2896		<b>6.4</b>	6.9	▲ 3.0

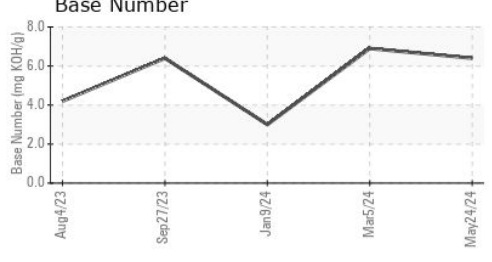
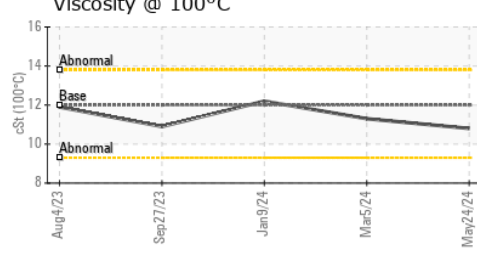
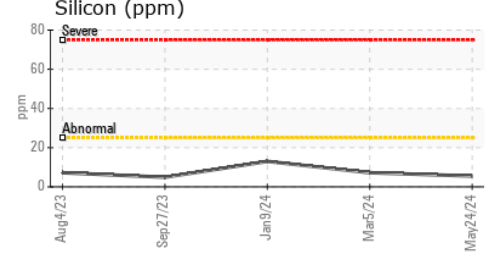
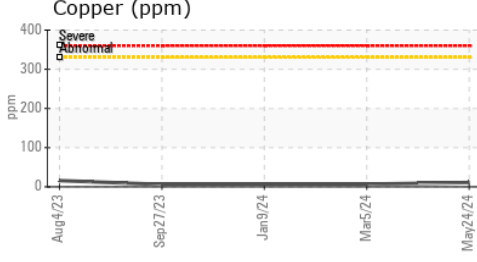
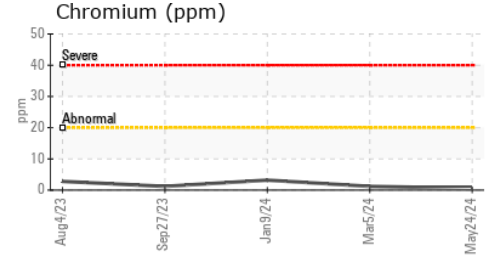
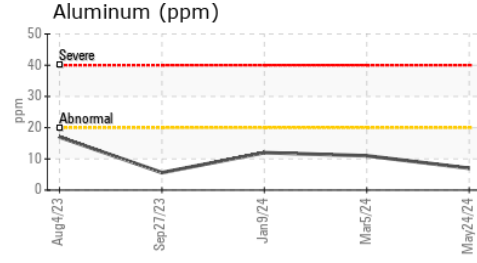
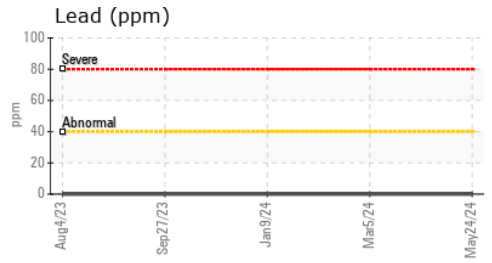
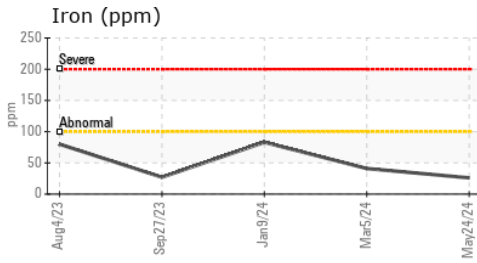
# OIL ANALYSIS REPORT



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	10.8	11.3

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0125191 **Received** : 05 Jun 2024  
**Lab Number** : 06199831 **Tested** : 05 Jun 2024  
**Unique Number** : 11061954 **Diagnosed** : 05 Jun 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: TBN )

**MILLER TRUCK LEASING #118**  
 2196 BENNETT ROAD  
 PHILADELPHIA, PA  
 US 19116

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

Contact: ROSTY VITER  
 rviter@millertransgroup.com

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

T: (215)552-9832

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

F: (215)552-9892