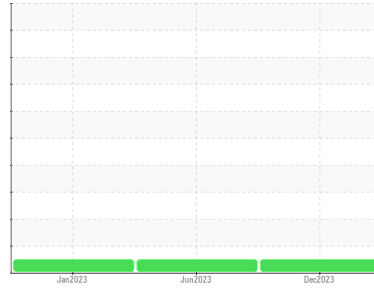


# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id  
**738201**  
 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>PCA0112272</b>	PCA0095740	PCA0085191
Sample Date	Client Info			<b>08 Dec 2023</b>	13 Jun 2023	16 Jan 2023
Machine Age	mls Client Info			<b>216156</b>	63197	73096
Oil Age	mls Client Info			<b>41216</b>	63197	73096
Oil Changed	Client Info			<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</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
Glycol	WC Method			<b>NEG</b>	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	<b>59</b>	62	112
Chromium	ppm	ASTM D5185m	>20	<b>2</b>	3	6
Nickel	ppm	ASTM D5185m	>4	<b>1</b>	<1	1
Titanium	ppm	ASTM D5185m		<b>3</b>	7	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185m	>20	<b>17</b>	32	86
Lead	ppm	ASTM D5185m	>40	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m	>330	<b>37</b>	44	129
Tin	ppm	ASTM D5185m	>15	<b>2</b>	3	7
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
Cadmium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1

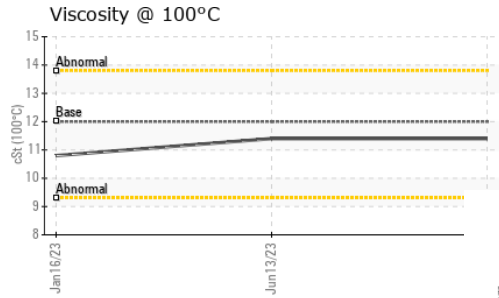
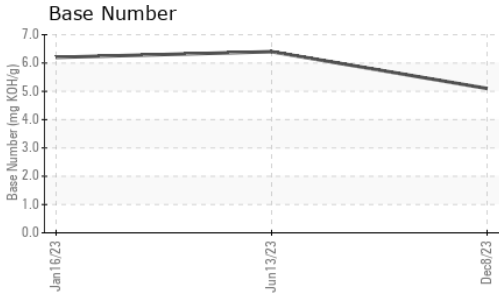
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	<b>4</b>	10	31
Barium	ppm	ASTM D5185m	0	<b>12</b>	0	2
Molybdenum	ppm	ASTM D5185m	50	<b>61</b>	52	49
Manganese	ppm	ASTM D5185m	0	<b>1</b>	2	4
Magnesium	ppm	ASTM D5185m	950	<b>899</b>	830	515
Calcium	ppm	ASTM D5185m	1050	<b>1273</b>	1435	1872
Phosphorus	ppm	ASTM D5185m	995	<b>965</b>	936	775
Zinc	ppm	ASTM D5185m	1180	<b>1257</b>	1241	994
Sulfur	ppm	ASTM D5185m	2600	<b>2334</b>	2721	2099

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>8</b>	7	12
Sodium	ppm	ASTM D5185m		<b>0</b>	4	9
Potassium	ppm	ASTM D5185m	>20	<b>39</b>	66	192

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	<b>2.1</b>	1.7	1.4
Nitration	Abs/cm	*ASTM D7624	>20	<b>11.9</b>	12.4	13.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>25.9</b>	25.6	25.4

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>22.4</b>	23.5	26.4
Base Number (BN)	mg KOH/g	ASTM D2896		<b>5.1</b>	6.4	6.2

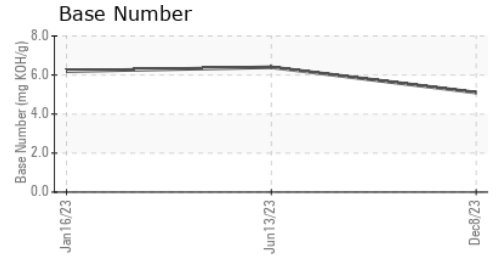
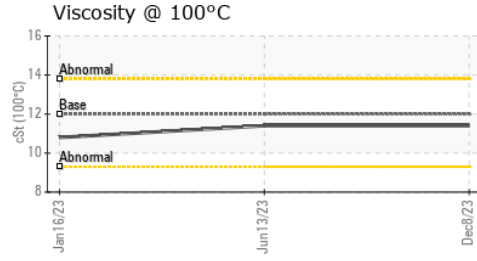
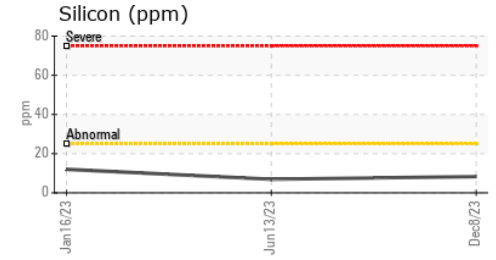
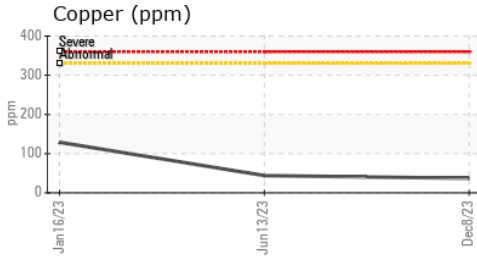
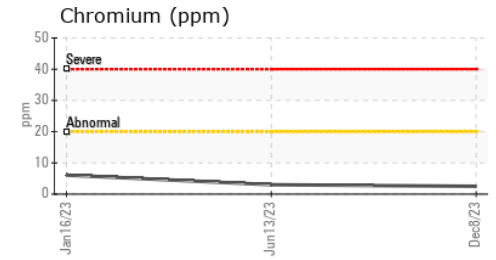
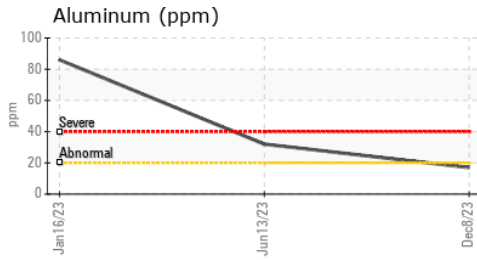
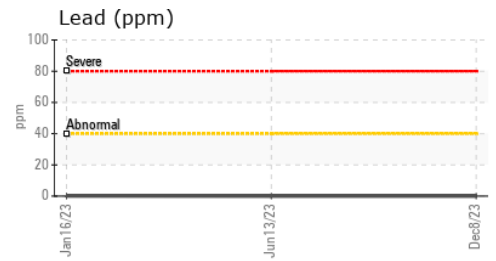
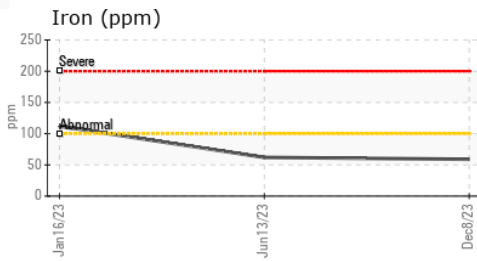
# OIL ANALYSIS REPORT



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	11.4	11.4

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0112272 **Received** : 15 Dec 2023  
**Lab Number** : 06035827 **Diagnosed** : 16 Dec 2023  
**Unique Number** : 10791056 **Diagnostician** : Wes Davis  
**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)