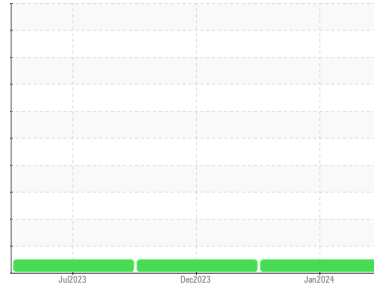


# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**426721**  
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

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>PCA0114589</b>	PCA0112229	PCA0095742
Sample Date	Client Info			<b>30 Jan 2024</b>	01 Dec 2023	12 Jul 2023
Machine Age	mls	Client Info		<b>22737</b>	120104	29653
Oil Age	mls	Client Info		<b>22737</b>	40000	29653
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>63</b>	72	101
Chromium	ppm	ASTM D5185m	>20	<b>2</b>	3	4
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	1	1
Titanium	ppm	ASTM D5185m		<b>2</b>	3	14
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>18</b>	18	22
Lead	ppm	ASTM D5185m	>40	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m	>330	<b>8</b>	10	18
Tin	ppm	ASTM D5185m	>15	<b>2</b>	2	3
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Cadmium	ppm	ASTM D5185m		<b>0</b>	<1	0

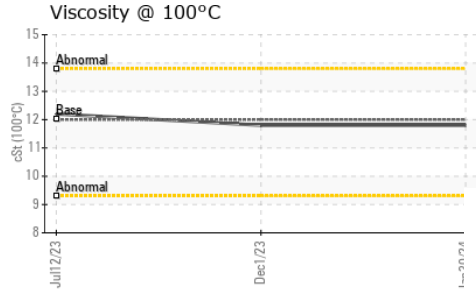
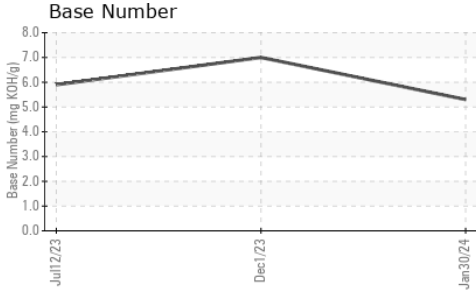
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	<b>3</b>	7	6
Barium	ppm	ASTM D5185m	0	<b>0</b>	12	0
Molybdenum	ppm	ASTM D5185m	50	<b>64</b>	61	58
Manganese	ppm	ASTM D5185m	0	<b>1</b>	2	3
Magnesium	ppm	ASTM D5185m	950	<b>1030</b>	940	969
Calcium	ppm	ASTM D5185m	1050	<b>1288</b>	1318	1593
Phosphorus	ppm	ASTM D5185m	995	<b>1108</b>	1023	1102
Zinc	ppm	ASTM D5185m	1180	<b>1374</b>	1287	1372
Sulfur	ppm	ASTM D5185m	2600	<b>2977</b>	3136	3491

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>8</b>	9	10
Sodium	ppm	ASTM D5185m		<b>6</b>	2	8
Potassium	ppm	ASTM D5185m	>20	<b>17</b>	32	28

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	<b>1.2</b>	1.1	1.6
Nitration	Abs/cm	*ASTM D7624	>20	<b>13.6</b>	12.9	15.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>26.9</b>	24.8	29.7

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>24.3</b>	23.1	26.9
Base Number (BN)	mg KOH/g	ASTM D2896		<b>5.3</b>	7.0	5.9

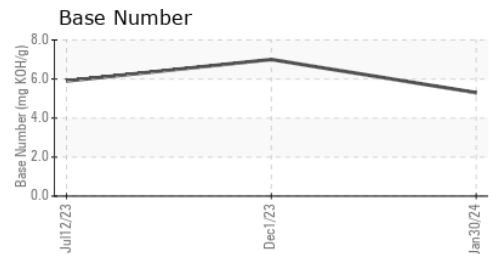
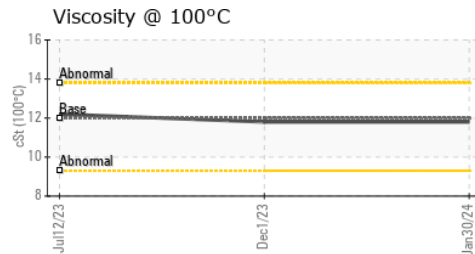
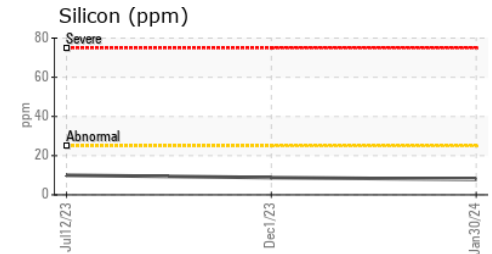
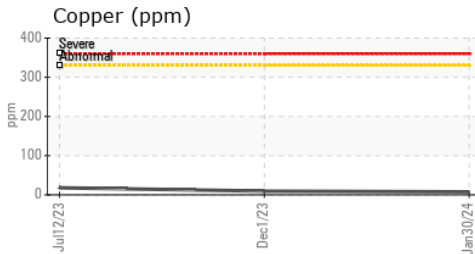
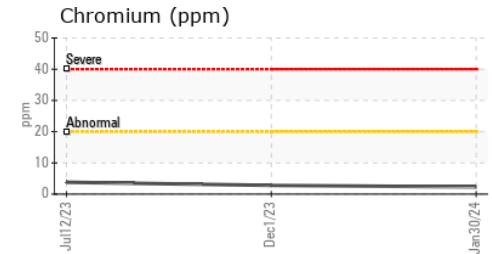
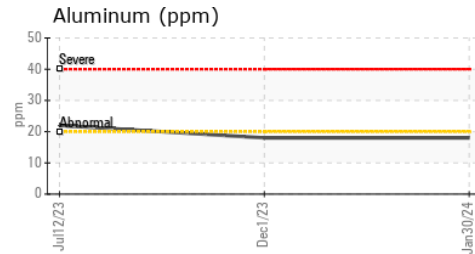
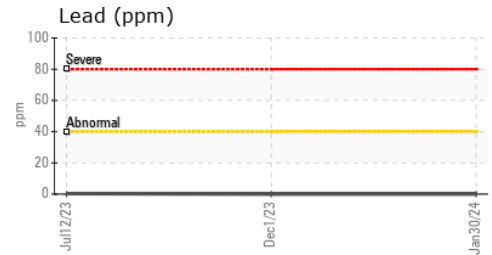
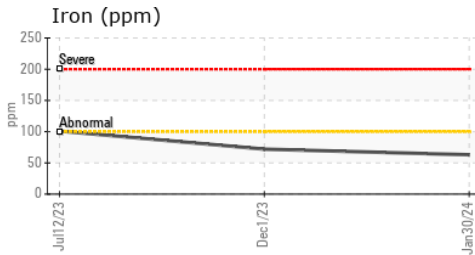
# OIL ANALYSIS REPORT



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	11.8	11.8	12.2

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0114589      **Received** : 08 Feb 2024  
**Lab Number** : 06084209      **Tested** : 09 Feb 2024  
**Unique Number** : 10871654      **Diagnosed** : 09 Feb 2024 - 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)