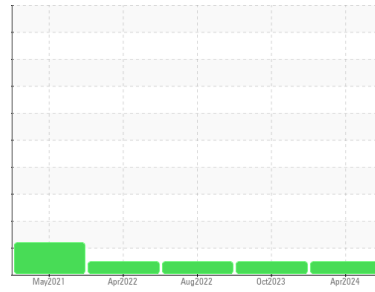


# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id  
**310137**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 10W30 (--- QTS)**

### 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>PCA0124009</b>	PCA0099708	PCA0077027
Sample Date	Client Info			<b>23 Apr 2024</b>	30 Oct 2023	13 Aug 2022
Machine Age	mls	Client Info		<b>95869</b>	0	58536
Oil Age	mls	Client Info		<b>0</b>	10000	12000
Oil Changed	Client Info			<b>N/A</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>14</b>	5	17
Chromium	ppm	ASTM D5185m	>20	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	2
Aluminum	ppm	ASTM D5185m	>20	<b>6</b>	2	6
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	<1	2
Copper	ppm	ASTM D5185m	>330	<b>1</b>	<1	18
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	0	1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

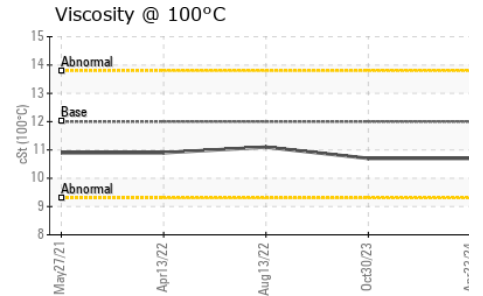
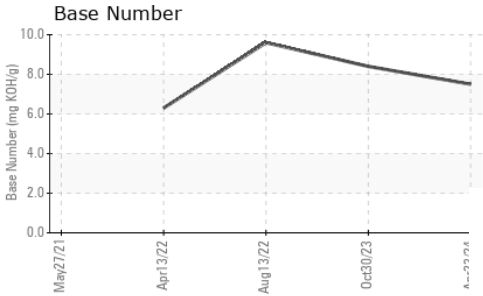
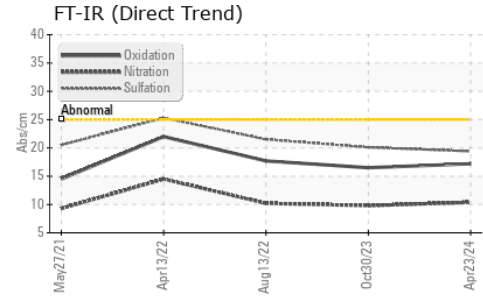
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	<b>5</b>	0	14
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	50	<b>67</b>	66	62
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185m	950	<b>966</b>	1035	757
Calcium	ppm	ASTM D5185m	1050	<b>1109</b>	1131	1179
Phosphorus	ppm	ASTM D5185m	995	<b>1101</b>	1112	959
Zinc	ppm	ASTM D5185m	1180	<b>1274</b>	1326	1132
Sulfur	ppm	ASTM D5185m	2600	<b>3499</b>	3367	3084

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>4</b>	2	4
Sodium	ppm	ASTM D5185m		<b>4</b>	0	5
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	2	5

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	<b>0.7</b>	0.7	0.7
Nitration	Abs/cm	*ASTM D7624	>20	<b>10.4</b>	9.8	10.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.4</b>	20.1	21.5

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>17.2</b>	16.5	17.7
Base Number (BN)	mg KOH/g	ASTM D2896		<b>7.5</b>	8.4	9.6

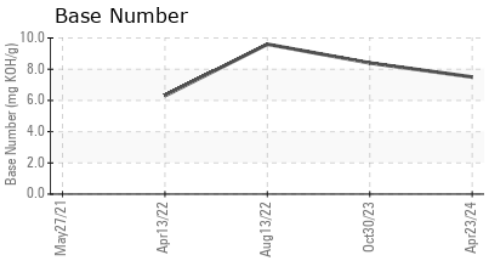
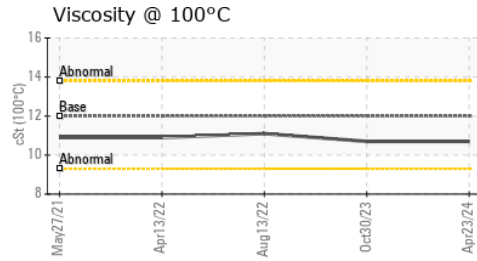
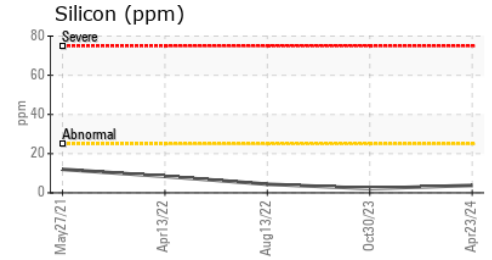
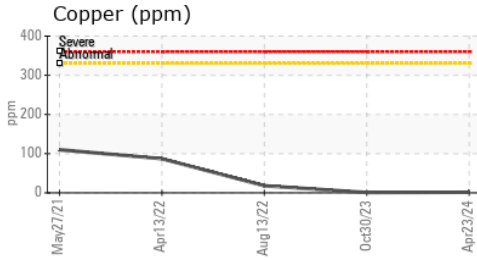
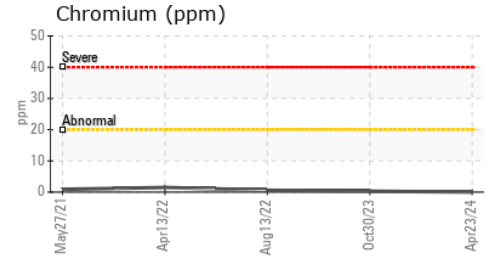
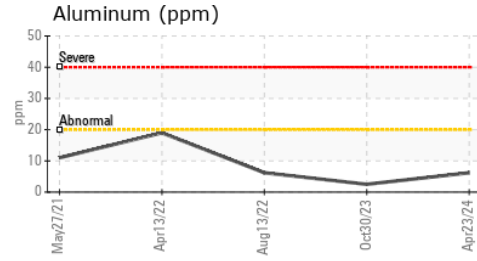
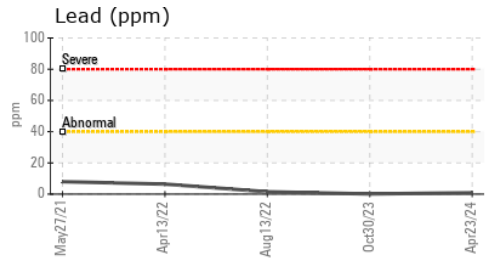
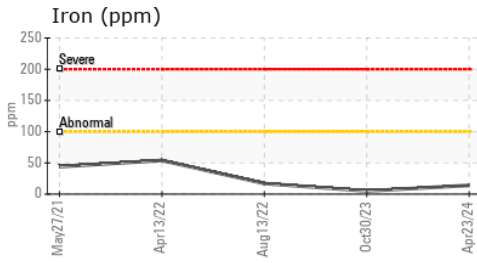
# OIL ANALYSIS REPORT



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	10.7	10.7

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0124009      **Received** : 24 May 2024  
**Lab Number** : 06191607      **Tested** : 29 May 2024  
**Unique Number** : 11048359      **Diagnosed** : 29 May 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: TBN )

**MILLER TRUCK LEASING #121**  
 107 HOW LANE  
 NEW BRUNSWICK, NJ  
 US 08901

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

Contact: Anthony Cursi  
acursi@millertransgroup.com

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

T: (732)358-4027

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

F: (732)400-8475