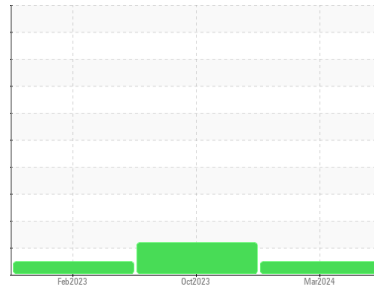


# OIL ANALYSIS REPORT

**Sample Rating Trend**

**NORMAL**


Machine Id  
**736796**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 10W30 (--- QTS)**

**DIAGNOSIS**
**Recommendation**

Oil and filter change at the time of sampling has been noted. 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 components first oil change.

**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>PCA0121481</b>	PCA0108331	PCA0093277
Sample Date	Client Info			<b>26 Mar 2024</b>	10 Oct 2023	21 Feb 2023
Machine Age	mls Client Info			<b>380469</b>	281903	185688
Oil Age	mls Client Info			<b>380469</b>	101988	185688
Oil Changed	Client Info			<b>Changed</b>	Changed	Not Changed
Sample Status				<b>NORMAL</b>	ABNORMAL	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>104</b>	137	35
Chromium	ppm	ASTM D5185m	>20	<b>3</b>	5	1
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	2	0
Titanium	ppm	ASTM D5185m		<b>4</b>	9	7
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	<1
Aluminum	ppm	ASTM D5185m	>20	<b>15</b>	30	13
Lead	ppm	ASTM D5185m	>40	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>330	<b>18</b>	64	48
Tin	ppm	ASTM D5185m	>15	<b>2</b>	4	3
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

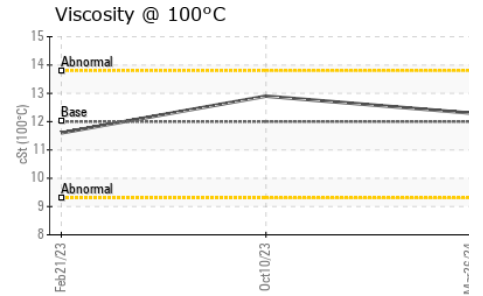
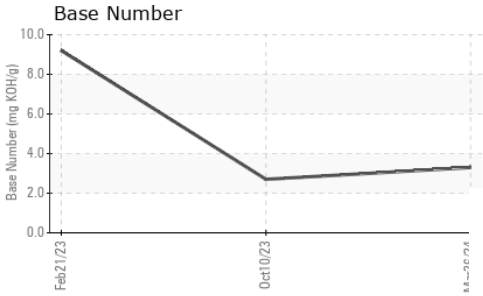
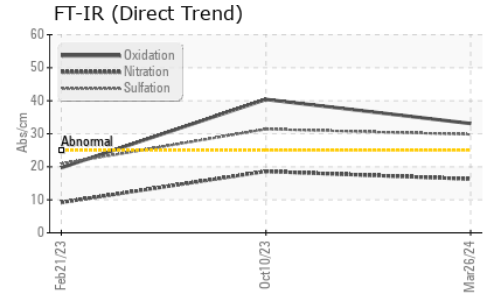
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	<b>7</b>	4	13
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	50	<b>64</b>	59	50
Manganese	ppm	ASTM D5185m	0	<b>1</b>	2	1
Magnesium	ppm	ASTM D5185m	950	<b>955</b>	885	896
Calcium	ppm	ASTM D5185m	1050	<b>1309</b>	1391	1502
Phosphorus	ppm	ASTM D5185m	995	<b>1067</b>	993	1069
Zinc	ppm	ASTM D5185m	1180	<b>1310</b>	1287	1299
Sulfur	ppm	ASTM D5185m	2600	<b>2645</b>	2579	3318

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>12</b>	19	6
Sodium	ppm	ASTM D5185m		<b>2</b>	3	1
Potassium	ppm	ASTM D5185m	>20	<b>25</b>	68	33

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	<b>1.9</b>	1.9	0.6
Nitration	Abs/cm	*ASTM D7624	>20	<b>16.3</b>	18.6	9.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>29.8</b>	31.4	20.9

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>33.1</b>	40.4	19.7
Base Number (BN)	mg KOH/g	ASTM D2896		<b>3.3</b>	▲ 2.7	9.2

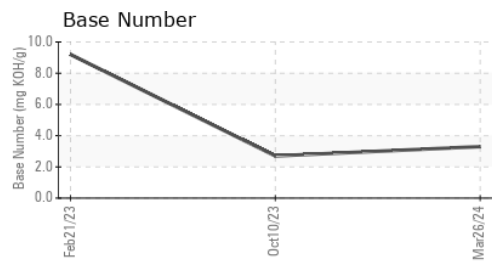
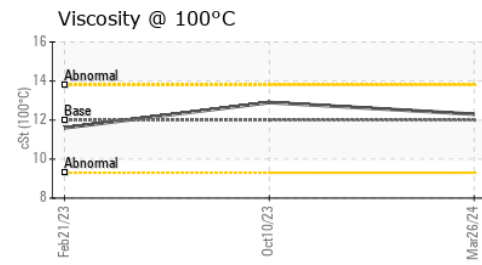
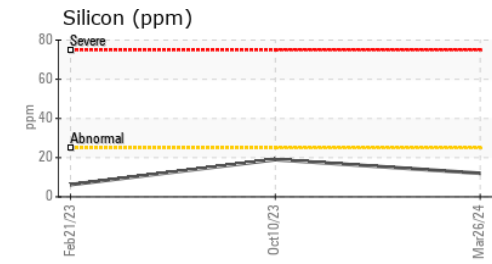
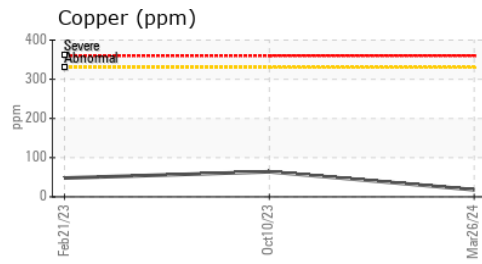
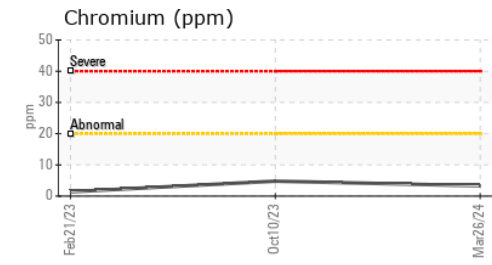
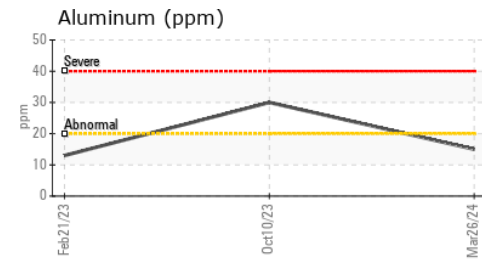
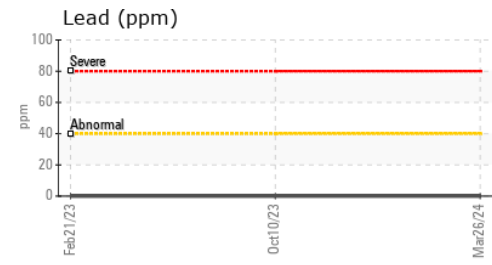
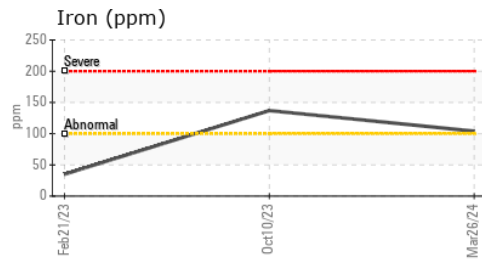
# OIL ANALYSIS REPORT



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	<b>12.3</b>	12.9	11.6

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0121481      **Received** : 10 Apr 2024  
**Lab Number** : **06143827**      **Tested** : 11 Apr 2024  
**Unique Number** : 10968635      **Diagnosed** : 12 Apr 2024 - Angela Borella  
**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)