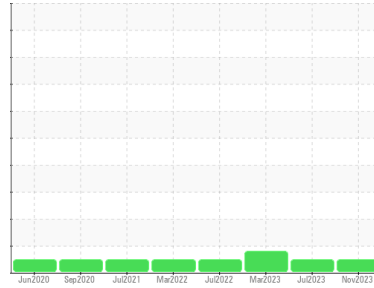


# OIL ANALYSIS REPORT

**Sample Rating Trend**

**NORMAL**


Machine Id  
**401076**  
 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>PCA0110493</b>	PCA0101364	PCA0094264
Sample Date	Client Info			<b>08 Nov 2023</b>	17 Jul 2023	06 Mar 2023
Machine Age	mls Client Info			<b>94808</b>	89413	84927
Oil Age	mls Client Info			<b>0</b>	0	0
Oil Changed	Client Info			<b>Not Chngd</b>	Not Chngd	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>22</b>	13	49
Chromium	ppm ASTM D5185m	>20		<b>1</b>	<1	2
Nickel	ppm ASTM D5185m	>4		<b>0</b>	0	<1
Titanium	ppm ASTM D5185m			<b>&lt;1</b>	<1	<1
Silver	ppm ASTM D5185m	>3		<b>0</b>	0	0
Aluminum	ppm ASTM D5185m	>20		<b>11</b>	5	▲ 20
Lead	ppm ASTM D5185m	>40		<b>0</b>	0	0
Copper	ppm ASTM D5185m	>330		<b>2</b>	2	4
Tin	ppm ASTM D5185m	>15		<b>&lt;1</b>	<1	2
Vanadium	ppm ASTM D5185m			<b>&lt;1</b>	<1	<1
Cadmium	ppm ASTM D5185m			<b>0</b>	0	0

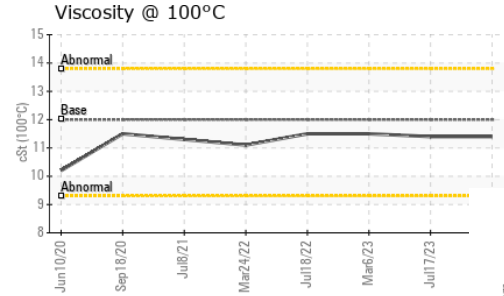
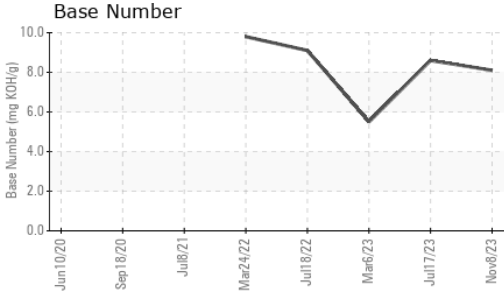
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	2		<b>6</b>	8	3
Barium	ppm ASTM D5185m	0		<b>0</b>	0	0
Molybdenum	ppm ASTM D5185m	50		<b>61</b>	64	65
Manganese	ppm ASTM D5185m	0		<b>&lt;1</b>	<1	2
Magnesium	ppm ASTM D5185m	950		<b>962</b>	997	924
Calcium	ppm ASTM D5185m	1050		<b>1126</b>	1179	1224
Phosphorus	ppm ASTM D5185m	995		<b>992</b>	1060	940
Zinc	ppm ASTM D5185m	1180		<b>1254</b>	1266	1233
Sulfur	ppm ASTM D5185m	2600		<b>2974</b>	3772	2958

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m	>25		<b>4</b>	3	5
Sodium	ppm ASTM D5185m			<b>&lt;1</b>	1	3
Potassium	ppm ASTM D5185m	>20		<b>6</b>	4	16

INFRA-RED		method	limit/base	current	history1	history2
Soot %	% *ASTM D7844	>3		<b>0.4</b>	0.3	1
Nitration	Abs/cm *ASTM D7624	>20		<b>9.2</b>	7.5	13.6
Sulfation	Abs/.1mm *ASTM D7415	>30		<b>20.5</b>	19.0	27.3

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414	>25		<b>16.6</b>	14.8	24.0
Base Number (BN)	mg KOH/g ASTM D2896			<b>8.1</b>	8.6	5.5

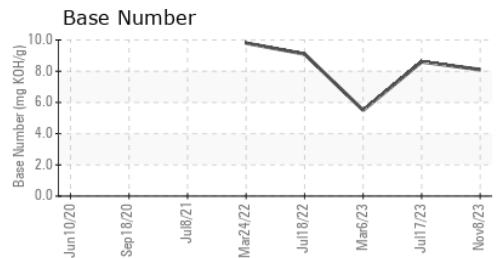
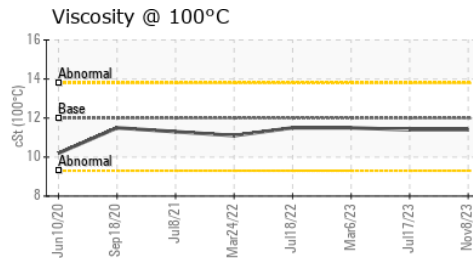
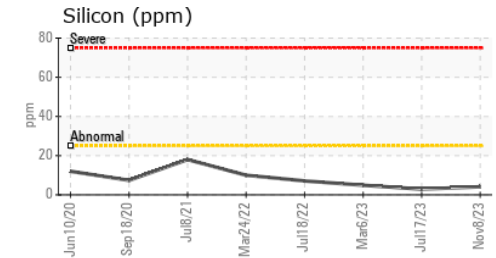
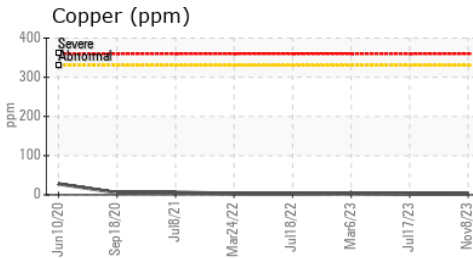
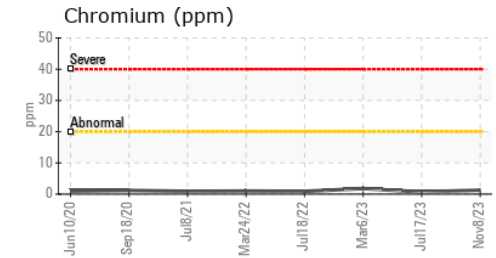
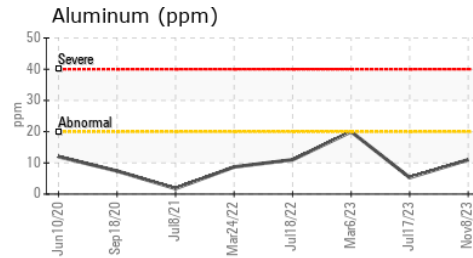
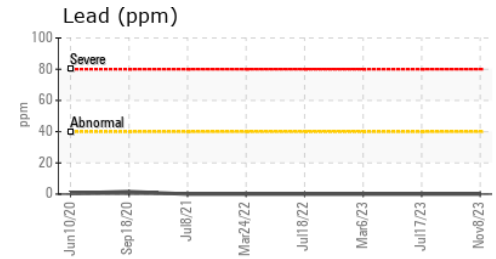
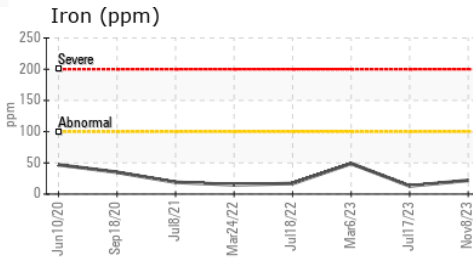
# OIL ANALYSIS REPORT



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>11.4</b>	11.4	11.5

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0110493 **Received** : 20 Nov 2023  
**Lab Number** : 06012973 **Diagnosed** : 21 Nov 2023  
**Unique Number** : 10752117 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: TBN )

**MILLER TRUCK LEASING #119**  
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 HASBROUCK HEIGHTS, NJ  
 US 07604  
 Contact: MIKE LONGETTE  
 mlongette@millertransgroup.com  
 T:  
 F: (201)528-7053

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)