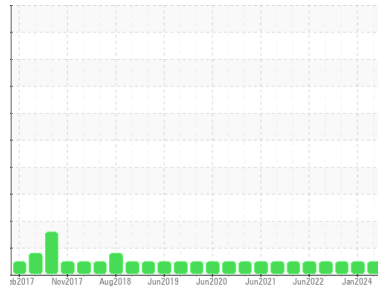


# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**HINO 372134**

Component  
**Diesel Engine**

Fluid  
**PETRO CANADA DURON SHP 10W30 (12 GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### 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>PCA0110632</b>	PCA0110648	PCA0083837
Sample Date	Client Info		<b>04 Mar 2024</b>	10 Jan 2024	18 May 2023
Machine Age	mls	Client Info	<b>208254</b>	205355	190238
Oil Age	mls	Client Info	<b>2899</b>	6830	7299
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>7</b>	8	9
Chromium	ppm	ASTM D5185m >20	<b>&lt;1</b>	0	2
Nickel	ppm	ASTM D5185m >4	<b>0</b>	0	1
Titanium	ppm	ASTM D5185m	<b>51</b>	2	20
Silver	ppm	ASTM D5185m >3	<b>0</b>	0	2
Aluminum	ppm	ASTM D5185m >20	<b>2</b>	2	5
Lead	ppm	ASTM D5185m >40	<b>&lt;1</b>	<1	5
Copper	ppm	ASTM D5185m >330	<b>&lt;1</b>	<1	2
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	2

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	<b>99</b>	2	14
Barium	ppm	ASTM D5185m 0	<b>0</b>	0	19
Molybdenum	ppm	ASTM D5185m 50	<b>22</b>	62	36
Manganese	ppm	ASTM D5185m 0	<b>&lt;1</b>	<1	2
Magnesium	ppm	ASTM D5185m 950	<b>527</b>	980	606
Calcium	ppm	ASTM D5185m 1050	<b>1491</b>	1120	947
Phosphorus	ppm	ASTM D5185m 995	<b>937</b>	1068	756
Zinc	ppm	ASTM D5185m 1180	<b>1101</b>	1269	928
Sulfur	ppm	ASTM D5185m 2600	<b>3724</b>	3218	2844

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>5</b>	3	6
Sodium	ppm	ASTM D5185m	<b>3</b>	5	5
Potassium	ppm	ASTM D5185m >20	<b>4</b>	0	7

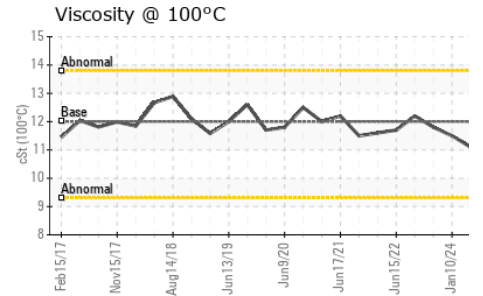
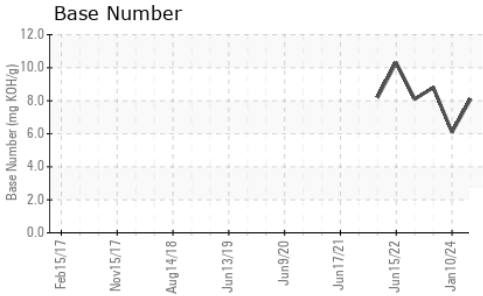
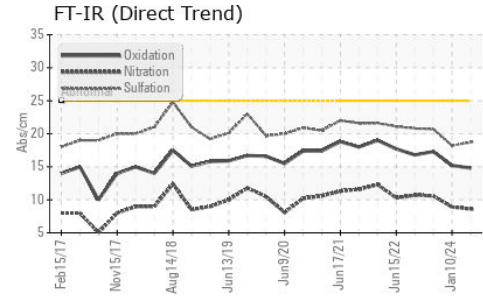
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.4</b>	0.8	1
Nitration	Abs/cm	*ASTM D7624 >20	<b>8.6</b>	8.9	10.6
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>18.7</b>	18.2	20.7

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>14.8</b>	15.2	17.3
Base Number (BN)	mg KOH/g	ASTM D2896	<b>8.1</b>	6.1	8.8

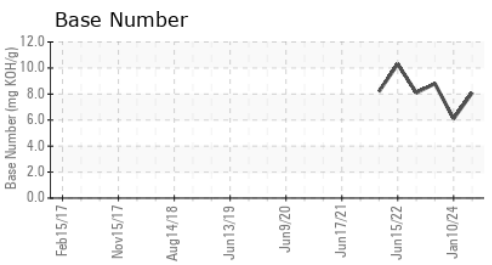
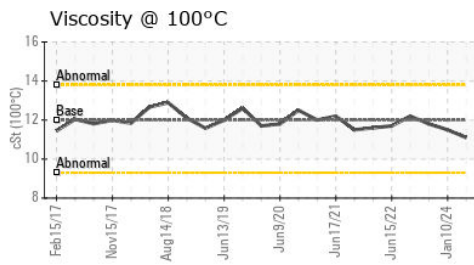
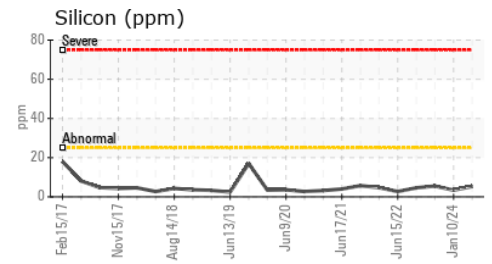
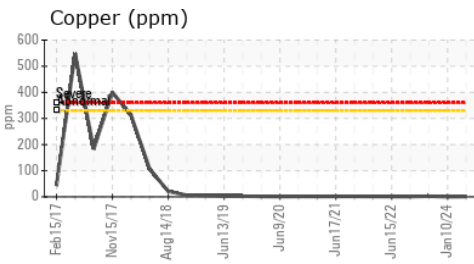
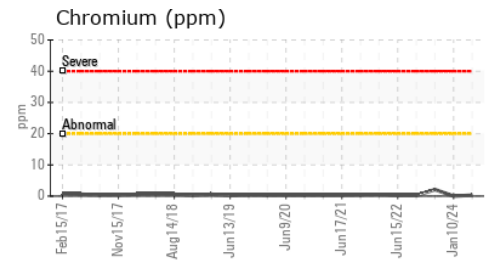
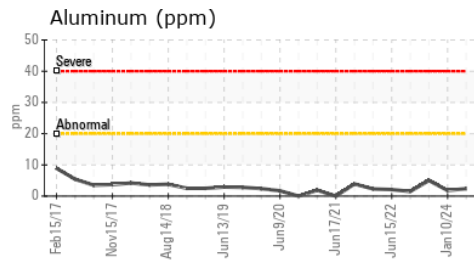
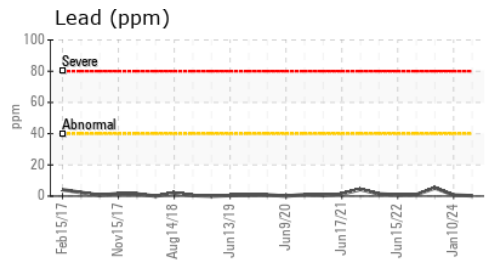
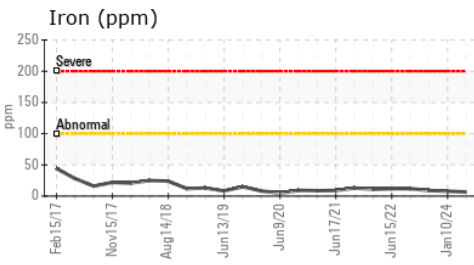
# OIL ANALYSIS REPORT



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	11.1	11.5	11.8

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0110632      **Received** : 04 Apr 2024  
**Lab Number** : 06138305      **Tested** : 04 Apr 2024  
**Unique Number** : 10963113      **Diagnosed** : 06 Apr 2024 - Don Baldrige  
**Test Package** : MOB 1 ( Additional Tests: TBN )

**MILLER TRUCK LEASING #123**  
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 LANCASTER, PA  
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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)