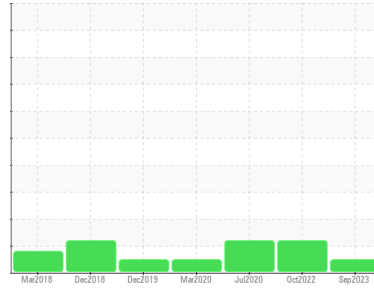


# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**FREIGHTLINER 285468**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 10W30 (--- 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>PCA0100938</b>	PCA0079727	PCA0027008
Sample Date	Client Info	<b>21 Sep 2023</b>	04 Oct 2022	25 Jul 2020
Machine Age	mls	Client Info	<b>323862</b>	0
Oil Age	mls	Client Info	<b>0</b>	0
Oil Changed	Client Info	<b>Changed</b>	Changed	Changed
Sample Status		<b>NORMAL</b>	ABNORMAL	ABNORMAL

## CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >3.0	<b>&lt;1.0</b>	<1.0	<1.0
Glycol	WC Method	<b>NEG</b>	NEG	NEG

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >200	<b>9</b>	58	24
Chromium	ppm ASTM D5185m >6	<b>&lt;1</b>	8	4
Nickel	ppm ASTM D5185m >3	<b>0</b>	0	<1
Titanium	ppm ASTM D5185m >2	<b>3</b>	<1	0
Silver	ppm ASTM D5185m >2	<b>0</b>	0	0
Aluminum	ppm ASTM D5185m >50	<b>2</b>	27	31
Lead	ppm ASTM D5185m >10	<b>&lt;1</b>	<1	<1
Copper	ppm ASTM D5185m >50	<b>&lt;1</b>	▲ 234	6
Tin	ppm ASTM D5185m >6	<b>0</b>	<1	<1
Antimony	ppm ASTM D5185m	<b>---</b>	---	0
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>10</b>	14	3
Barium	ppm ASTM D5185m 0	<b>0</b>	2	0
Molybdenum	ppm ASTM D5185m 50	<b>57</b>	46	56
Manganese	ppm ASTM D5185m 0	<b>0</b>	3	<1
Magnesium	ppm ASTM D5185m 950	<b>892</b>	570	934
Calcium	ppm ASTM D5185m 1050	<b>1145</b>	1779	1045
Phosphorus	ppm ASTM D5185m 995	<b>991</b>	731	947
Zinc	ppm ASTM D5185m 1180	<b>1225</b>	913	1042
Sulfur	ppm ASTM D5185m 2600	<b>3264</b>	2143	2952

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >50	<b>4</b>	8	3
Sodium	ppm ASTM D5185m	<b>0</b>	11	5
Potassium	ppm ASTM D5185m >20	<b>2</b>	35	▲ 68

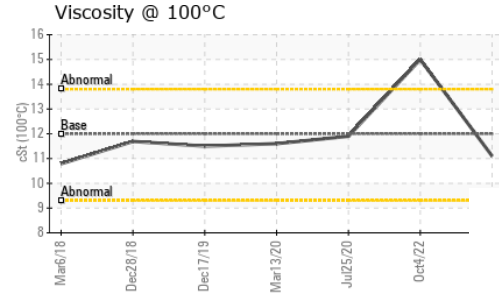
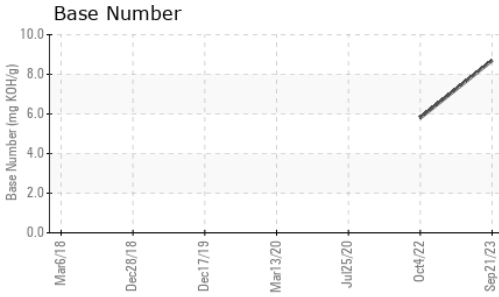
## INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	<b>0.2</b>	1.4	0.7
Nitration	Abs/cm *ASTM D7624 >20	<b>7.2</b>	17.1	9.7
Sulfation	Abs/.1mm *ASTM D7415 >30	<b>18.3</b>	27.6	21.9

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	<b>14.0</b>	32.2	17.9
Base Number (BN)	mg KOH/g ASTM D2896	<b>8.7</b>	5.8	---

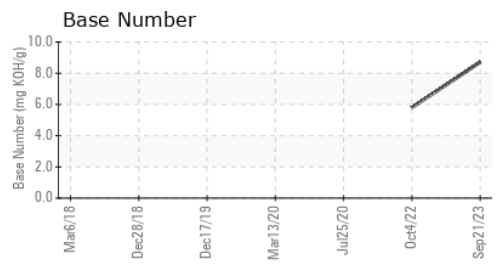
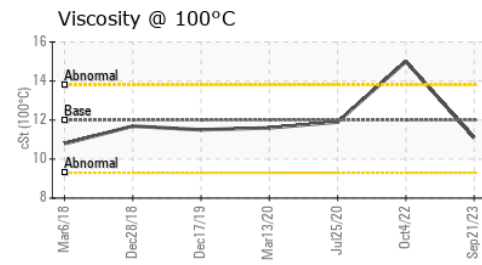
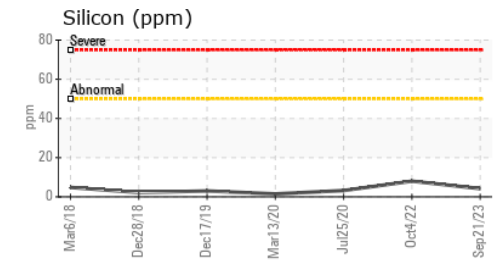
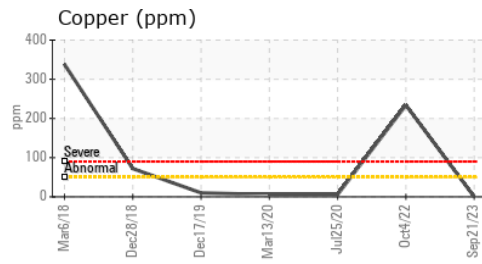
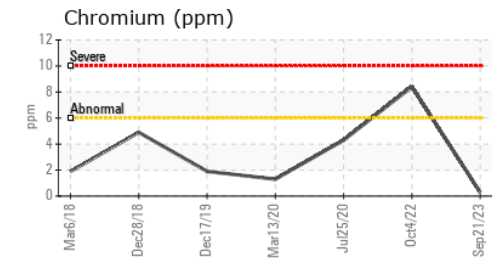
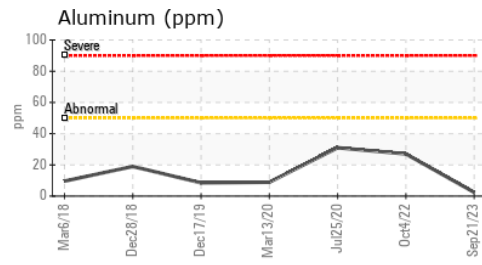
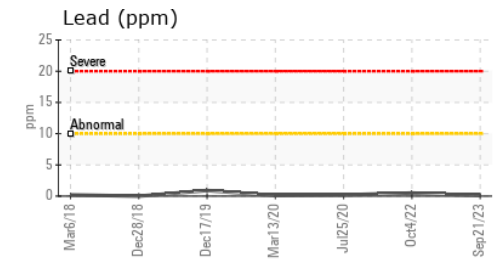
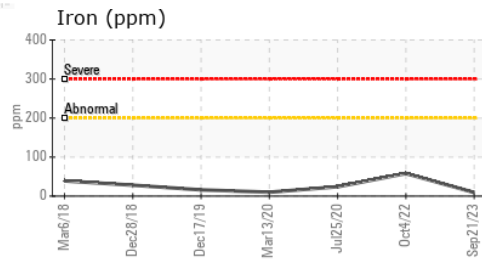
# OIL ANALYSIS REPORT



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	<b>11.1</b>	▲ 15.0	11.9	

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0100938 **Received** : 08 Nov 2023  
**Lab Number** : 06001277 **Diagnosed** : 08 Nov 2023  
**Unique Number** : 10729637 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: TBN )

**MILLER TRUCK LEASING #114**  
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 LOGAN TOWNSHIP, NJ  
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 edavis@millertransgroup.com  
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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)