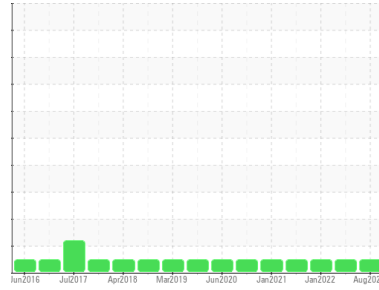


# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**JV TRANSPORTATION CONSULTANTS INC.**  
 Machine Id  
**FREIGHTLINER 662836**  
 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 acceptable for the time in service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PCA0103010</b>	PCA0080735	PCA0065635
Sample Date	Client Info		<b>01 Aug 2023</b>	24 Sep 2022	12 Jan 2022
Machine Age	mls	Client Info	<b>373267</b>	366974	339340
Oil Age	mls	Client Info	<b>0</b>	0	50000
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
Glycol	WC Method		<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >80	<b>14</b>	17	30
Chromium	ppm	ASTM D5185m >5	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m >2	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	<b>0</b>	0	<1
Silver	ppm	ASTM D5185m >3	<b>&lt;1</b>	0	<1
Aluminum	ppm	ASTM D5185m >30	<b>0</b>	2	7
Lead	ppm	ASTM D5185m >30	<b>&lt;1</b>	3	4
Copper	ppm	ASTM D5185m >150	<b>&lt;1</b>	0	1
Tin	ppm	ASTM D5185m >5	<b>&lt;1</b>	0	<1
Antimony	ppm	ASTM D5185m	<b>---</b>	---	<1
Vanadium	ppm	ASTM D5185m	<b>&lt;1</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>80</b>	9	16
Barium	ppm	ASTM D5185m 0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m 50	<b>65</b>	74	64
Manganese	ppm	ASTM D5185m 0	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m 950	<b>591</b>	858	920
Calcium	ppm	ASTM D5185m 1050	<b>1564</b>	1266	1300
Phosphorus	ppm	ASTM D5185m 995	<b>997</b>	1016	1109
Zinc	ppm	ASTM D5185m 1180	<b>1260</b>	1238	1260
Sulfur	ppm	ASTM D5185m 2600	<b>3853</b>	3529	2750

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	<b>6</b>	2	4
Sodium	ppm	ASTM D5185m	<b>2</b>	0	1
Potassium	ppm	ASTM D5185m >20	<b>5</b>	17	11

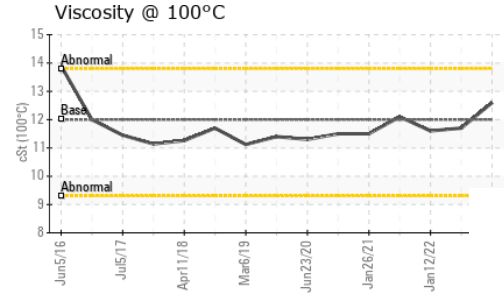
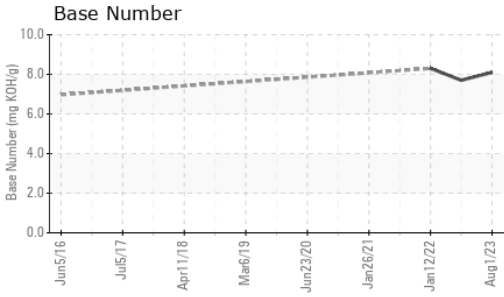
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.2</b>	0.5	0.5
Nitration	Abs/cm	*ASTM D7624 >20	<b>5.9</b>	10.6	10.9
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>17.7</b>	23.5	23.0

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>13.5</b>	19.7	19.5
Base Number (BN)	mg KOH/g	ASTM D2896	<b>8.1</b>	7.7	8.3

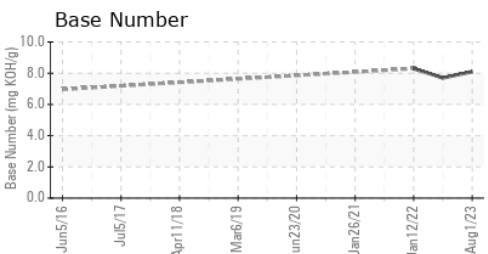
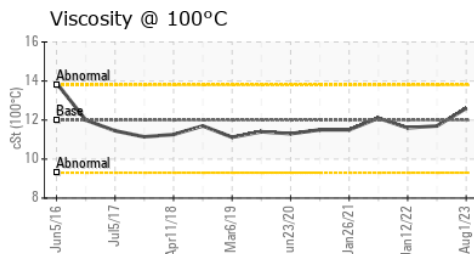
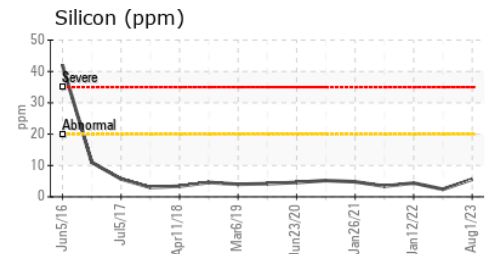
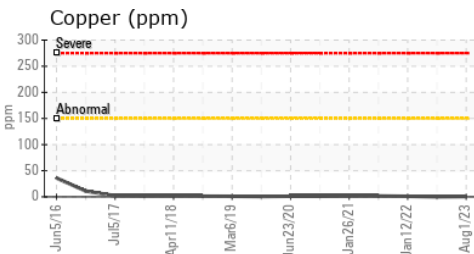
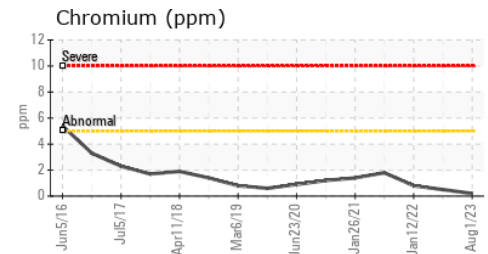
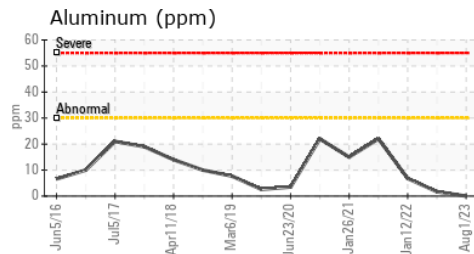
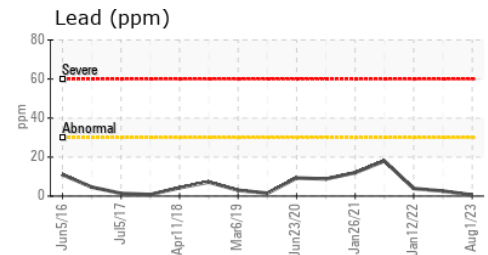
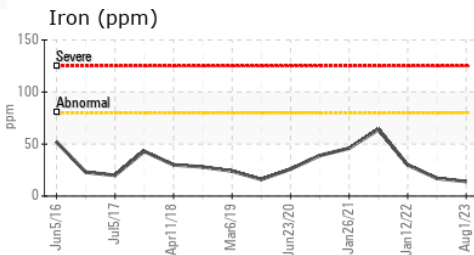
# OIL ANALYSIS REPORT



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>12.6</b>	11.7	11.6

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0103010 **Received** : 16 Aug 2023  
**Lab Number** : **05925769** **Diagnosed** : 17 Aug 2023  
**Unique Number** : 10605716 **Diagnostician** : Don Baldrige  
**Test Package** : MOB 1 ( Additional Tests: TBN )

**MILLER TRUCK LEASING #119**  
 39 INDUSTRIAL AVE  
 HASBROUCK HEIGHTS, NJ  
 US 07604  
 Contact: MIKE LONGETTE  
 mlongette@millertransgroup.com

Certificate L2367  
 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)

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