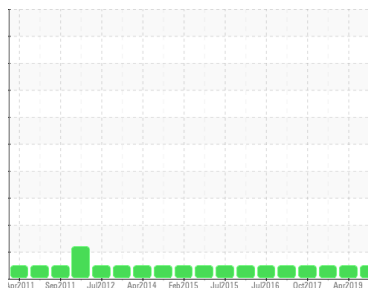




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**FREIGHTLINER 8157**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 10W30 (44 QTS)**

## 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 component.

### 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	history 1	history 2
Sample Number	Client Info			<b>TOT0009963</b>	PCAMF019389	PCAMF020510
Sample Date	Client Info			<b>04 May 2020</b>	19 Apr 2019	20 Jun 2018
Machine Age	mls Client Info			<b>594476</b>	559699	530826
Oil Age	mls Client Info			<b>34777</b>	28846	32341
Oil Changed	Client Info			<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history 1	history 2
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	history 1	history 2
Iron	ppm	ASTM D5185m	>69	<b>37</b>	22	20
Chromium	ppm	ASTM D5185m	>6	<b>2</b>	1	1
Nickel	ppm	ASTM D5185m	>3	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>53	<b>8</b>	7	6
Lead	ppm	ASTM D5185m	>11	<b>2</b>	<1	<1
Copper	ppm	ASTM D5185m	>388	<b>6</b>	5	6
Tin	ppm	ASTM D5185m	>6	<b>0</b>	0	0
Antimony	ppm	ASTM D5185m		<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

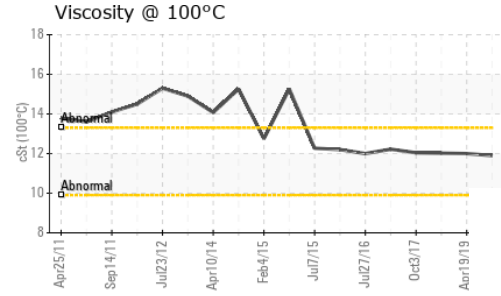
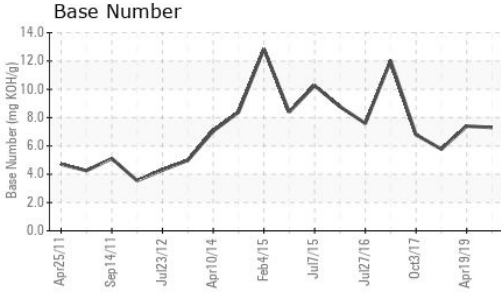
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m		<b>3</b>	8	3
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>71</b>	56	38
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>1218</b>	760	571
Calcium	ppm	ASTM D5185m		<b>1418</b>	1206	1564
Phosphorus	ppm	ASTM D5185m		<b>1170</b>	882	914
Zinc	ppm	ASTM D5185m		<b>1430</b>	1131	1191
Sulfur	ppm	ASTM D5185m		<b>2628</b>	2207	2588

CONTAMINANTS		method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>12	<b>5</b>	3	5
Sodium	ppm	ASTM D5185m		<b>5</b>	3	4
Potassium	ppm	ASTM D5185m	>20	<b>8</b>	12	0

INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844	>3	<b>1.6</b>	1.6	1
Nitration	Abs/cm	*ASTM D7624	>20	<b>11.3</b>	10.4	9.
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>24.2</b>	22.8	21.

FLUID DEGRADATION		method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>20</b>	17.6	16.
Base Number (BN)	mg KOH/g	ASTM D2896		<b>7.3</b>	7.4	5.77

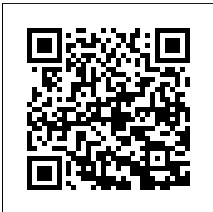
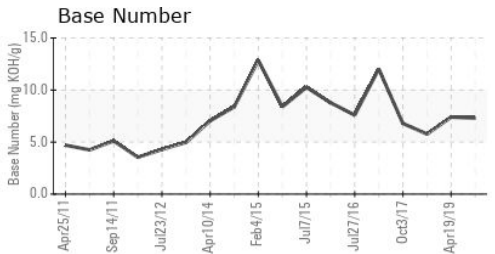
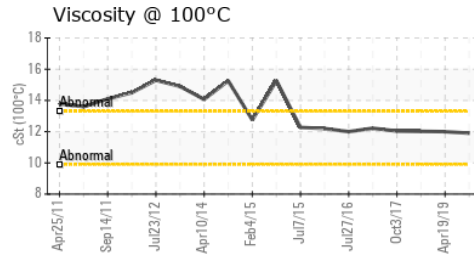
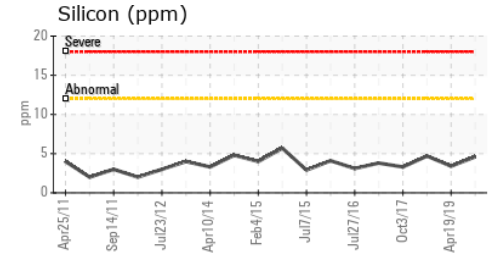
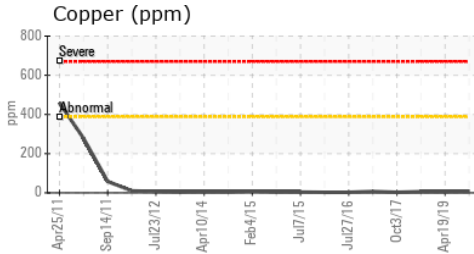
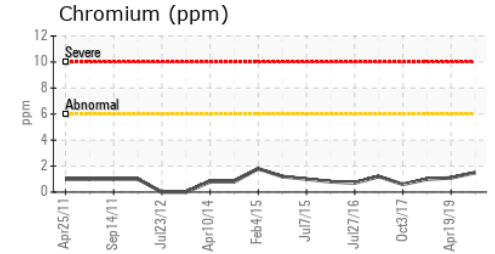
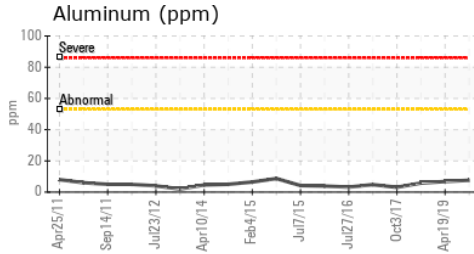
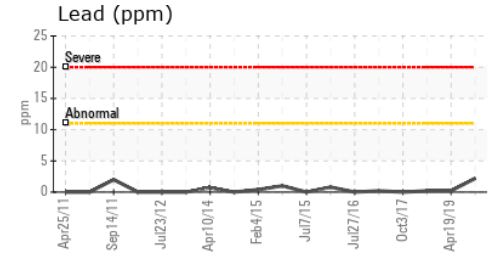
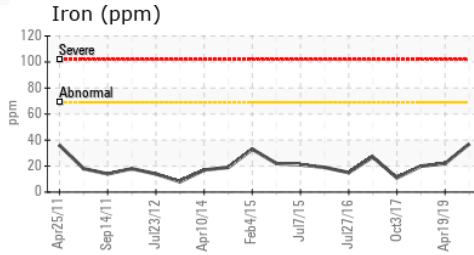
# OIL ANALYSIS REPORT



PARAMETER	method	limit/base	current	history 1	history 2
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	history 1	history 2
Visc @ 100°C	cSt	ASTM D445	11.9	12.0	12.02

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC1234567 **Received** : 28 May 2020  
**Lab Number** : 01234567 **Diagnosed** : 30 May 2020  
**Unique Number** : 12345678 **Diagnostician** : Don Baldrige  
**Test Package** : MOB1+

**Cusany Logistics Inc.**  
 1212 Industrial Place  
 Centerville, OH  
 USA 75900  
 Contact: Jim Leduc  
 jim.leduc@cusanylogisticsinc.com  
 T: (305)555-1212  
 F: (305)555-1222

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)