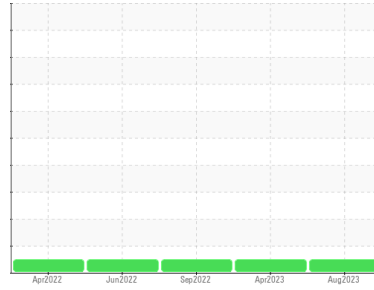


# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id  
**FREIGHTLINER 53**

Component  
**Diesel Engine**

Fluid  
**PETRO CANADA DURON HP 15W40 (--- 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>PCA0096648</b>	PCA0088234	PCA0076819
Sample Date	Client Info			<b>30 Aug 2023</b>	26 Apr 2023	19 Sep 2022
Machine Age	mls	Client Info		<b>617443</b>	586890	565687
Oil Age	mls	Client Info		<b>29329</b>	21203	22298
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	>100	<b>48</b>	40	30
Chromium	ppm	ASTM D5185m	>20	<b>3</b>	3	3
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	1	2
Titanium	ppm	ASTM D5185m		<b>2</b>	<1	1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	<1	1
Aluminum	ppm	ASTM D5185m	>20	<b>11</b>	17	8
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	1	<1
Copper	ppm	ASTM D5185m	>330	<b>4</b>	9	3
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	2
Cadmium	ppm	ASTM D5185m		<b>0</b>	<1	<1

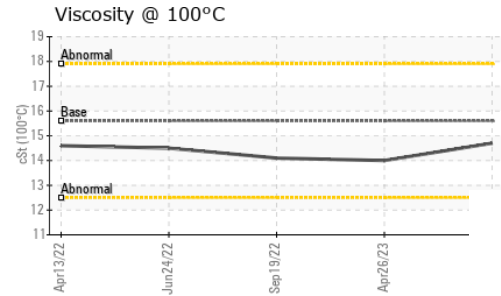
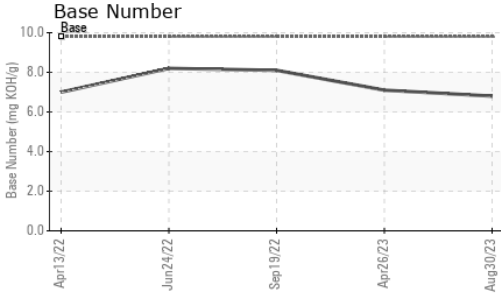
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>3</b>	5	5
Barium	ppm	ASTM D5185m		<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185m		<b>64</b>	59	61
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	1	1
Magnesium	ppm	ASTM D5185m		<b>1094</b>	908	929
Calcium	ppm	ASTM D5185m		<b>1318</b>	1253	1076
Phosphorus	ppm	ASTM D5185m		<b>1118</b>	988	986
Zinc	ppm	ASTM D5185m		<b>1453</b>	1210	1209
Sulfur	ppm	ASTM D5185m		<b>2875</b>	2809	2916

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>9</b>	7	8
Sodium	ppm	ASTM D5185m		<b>4</b>	13	4
Potassium	ppm	ASTM D5185m	>20	<b>7</b>	29	6

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	<b>1</b>	0.8	0.9
Nitration	Abs/cm	*ASTM D7624	>20	<b>11.4</b>	10.8	10.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>24.0</b>	23.3	23.1

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>21.1</b>	19.3	19.5
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>6.8</b>	7.1	8.1

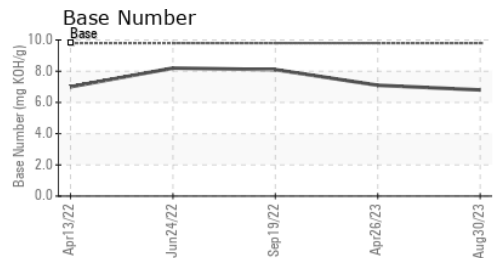
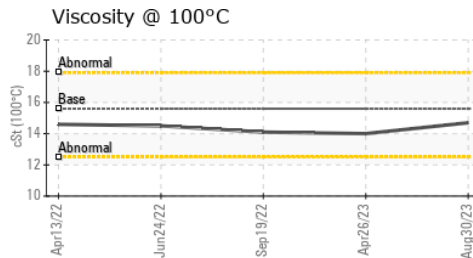
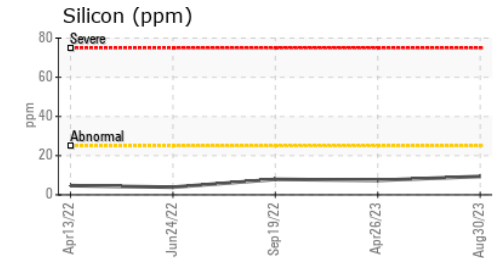
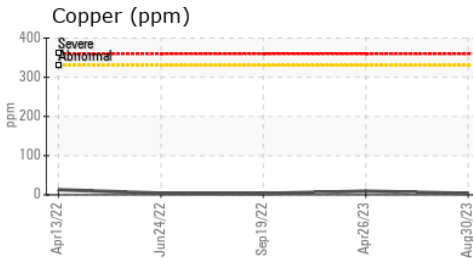
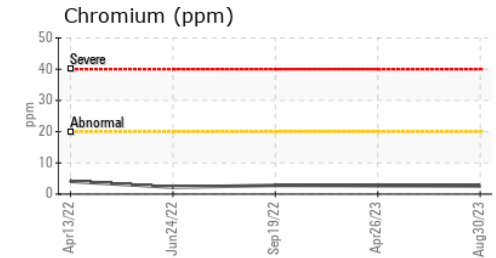
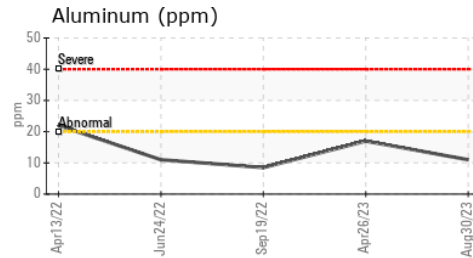
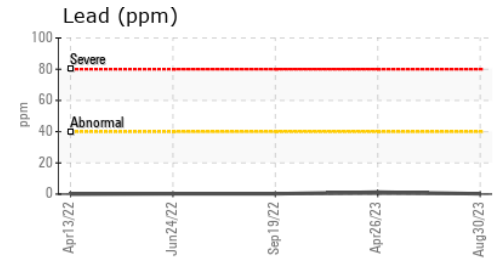
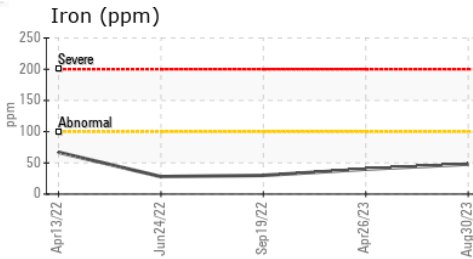
# OIL ANALYSIS REPORT



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	15.6	<b>14.7</b>	14.0	14.1

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0096648 **Received** : 04 Oct 2023  
**Lab Number** : **05968587** **Diagnosed** : 04 Oct 2023  
**Unique Number** : 10675138 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: TBN )

**AREA WIDE TRANSPORTATION**  
 3085 IL RT 71  
 OTTAWA, IL  
 US 61350  
 Contact: JEFF  
 jeff@driveawt.com  
 T: (815)587-2947  
 F:

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)