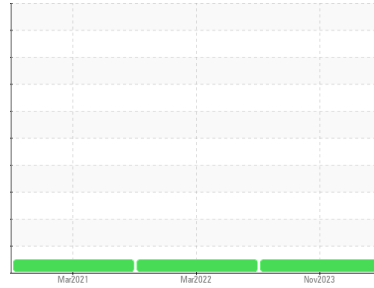


# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id  
**FREIGHTLINER 308817**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 10W30 (--- QTS)**

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

Metal levels are typical for a new component breaking in.

#### 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>PCA0098956</b>	PCA0064790	PCA0042242
Sample Date	Client Info			<b>09 Nov 2023</b>	01 Mar 2022	03 Mar 2021
Machine Age	mls	Client Info		<b>60073</b>	30143	8804
Oil Age	mls	Client Info		<b>0</b>	21000	8804
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	>3.0		<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	>200	<b>75</b>	88	81
Chromium	ppm	ASTM D5185m	>20	<b>2</b>	3	2
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	2
Titanium	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>30	<b>21</b>	32	17
Lead	ppm	ASTM D5185m	>30	<b>0</b>	<1	0
Copper	ppm	ASTM D5185m	>30	<b>4</b>	17	35
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	2	<1
Antimony	ppm	ASTM D5185m		<b>---</b>	0	1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

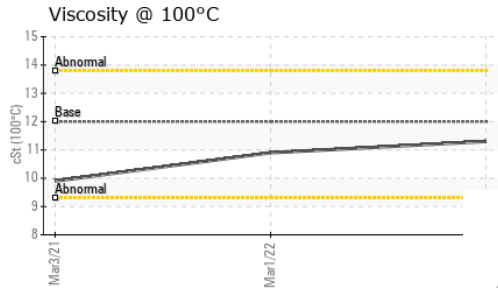
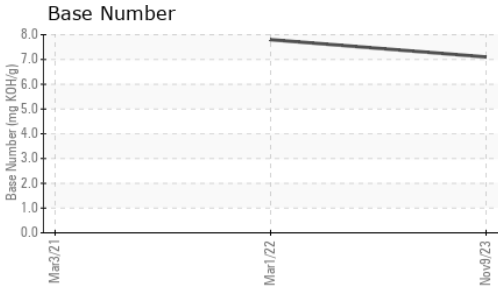
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	<b>7</b>	13	71
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	50	<b>72</b>	50	8
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	2	5
Magnesium	ppm	ASTM D5185m	950	<b>950</b>	911	790
Calcium	ppm	ASTM D5185m	1050	<b>1230</b>	1236	1530
Phosphorus	ppm	ASTM D5185m	995	<b>1021</b>	955	789
Zinc	ppm	ASTM D5185m	1180	<b>1290</b>	1198	847
Sulfur	ppm	ASTM D5185m	2600	<b>3297</b>	2717	2643

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	<b>5</b>	7	10
Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	3	6
Potassium	ppm	ASTM D5185m	>20	<b>16</b>	36	28

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	<b>0.8</b>	0.6	0.3
Nitration	Abs/cm	*ASTM D7624	>20	<b>12.2</b>	11.7	10
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>22.8</b>	22.8	20.2

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>19.2</b>	19.2	16.3
Base Number (BN)	mg KOH/g	ASTM D2896		<b>7.1</b>	7.8	---

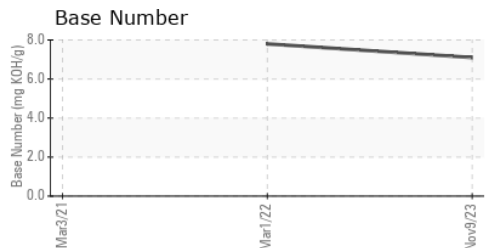
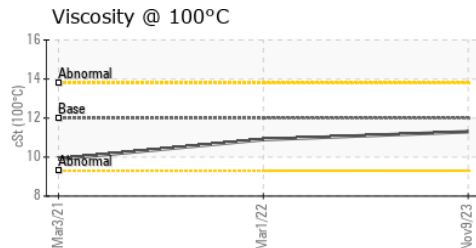
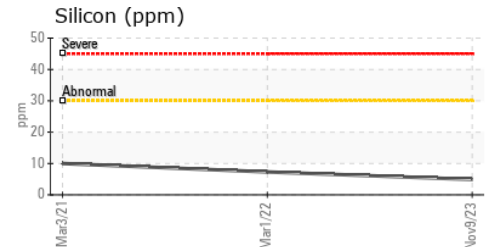
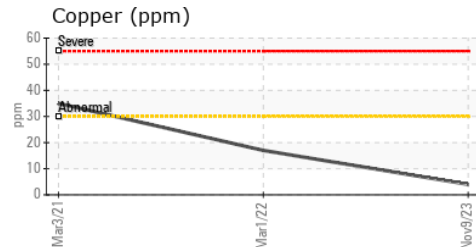
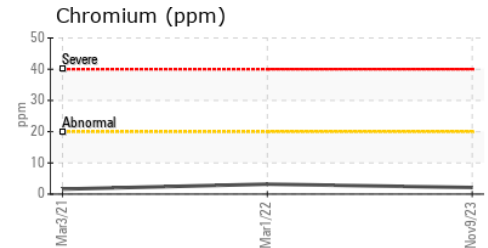
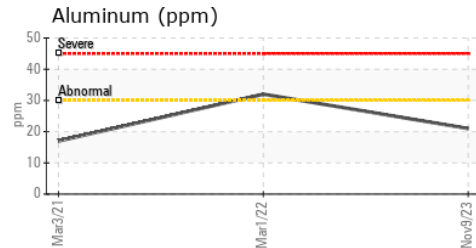
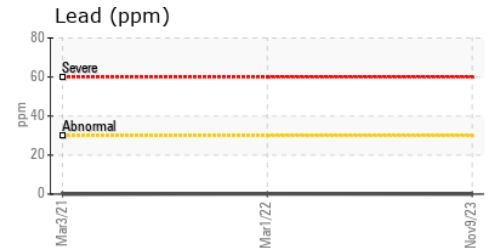
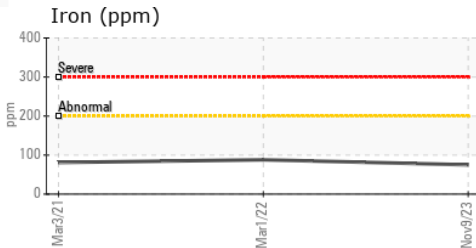
# OIL ANALYSIS REPORT



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	11.3	10.9

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0098956 **Received** : 24 Nov 2023  
**Lab Number** : 06016269 **Diagnosed** : 27 Nov 2023  
**Unique Number** : 10755413 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: TBN )

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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