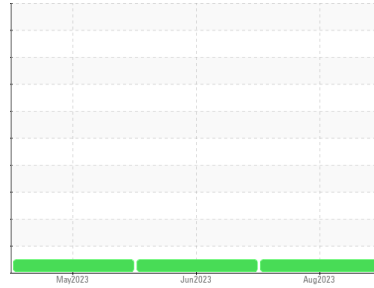


# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id  
**SJB1072**

Component  
**Diesel Engine**

Fluid  
**PETRO CANADA DURON SHP 10W30 (--- QTS)**

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

#### 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>PCA0100934</b>	PCA0100961	PCA0097804
Sample Date	Client Info		<b>19 Aug 2023</b>	21 Jun 2023	08 May 2023
Machine Age	mls	Client Info	<b>31346</b>	51377	41323
Oil Age	mls	Client Info	<b>10000</b>	10056	41323
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>19</b>	34	117
Chromium	ppm	ASTM D5185m >20	<b>2</b>	<1	2
Nickel	ppm	ASTM D5185m >4	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m	<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m >3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >20	<b>9</b>	3	17
Lead	ppm	ASTM D5185m >40	<b>&lt;1</b>	1	5
Copper	ppm	ASTM D5185m >330	<b>1</b>	26	163
Tin	ppm	ASTM D5185m >15	<b>&lt;1</b>	2	7
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>5</b>	5	14
Barium	ppm	ASTM D5185m 0	<b>0</b>	12	7
Molybdenum	ppm	ASTM D5185m 50	<b>61</b>	60	50
Manganese	ppm	ASTM D5185m 0	<b>1</b>	<1	3
Magnesium	ppm	ASTM D5185m 950	<b>982</b>	870	616
Calcium	ppm	ASTM D5185m 1050	<b>1136</b>	1094	1309
Phosphorus	ppm	ASTM D5185m 995	<b>1057</b>	976	1079
Zinc	ppm	ASTM D5185m 1180	<b>1373</b>	1244	1333
Sulfur	ppm	ASTM D5185m 2600	<b>3811</b>	3164	2706

### CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>9</b>	8	24
Sodium	ppm	ASTM D5185m	<b>1</b>	8	9
Potassium	ppm	ASTM D5185m >20	<b>12</b>	<1	7

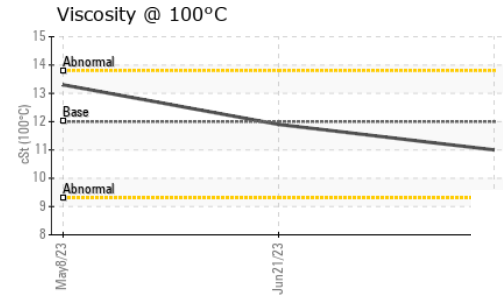
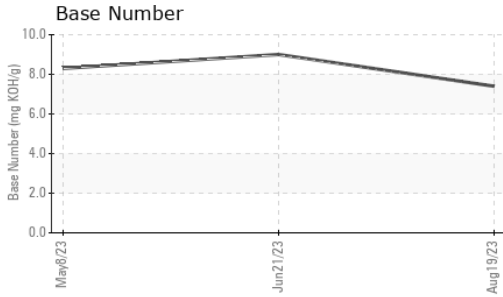
### INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.3</b>	0.6	1.1
Nitration	Abs/cm	*ASTM D7624 >20	<b>9.0</b>	10.1	14.2
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>19.5</b>	21.6	24.2

### FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>15.9</b>	18.6	23.5
Base Number (BN)	mg KOH/g	ASTM D2896	<b>7.4</b>	9.0	8.3

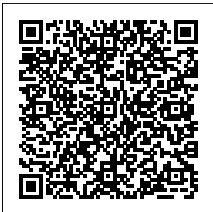
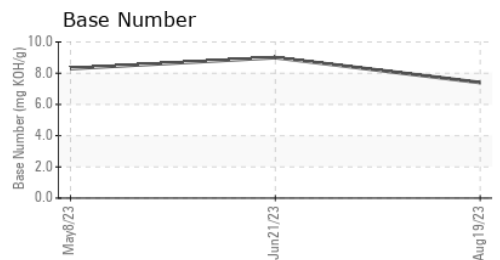
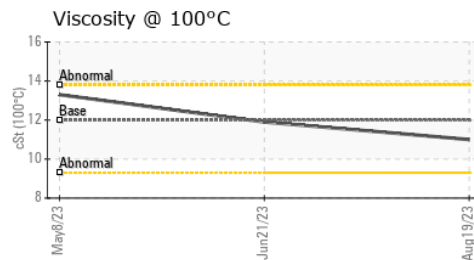
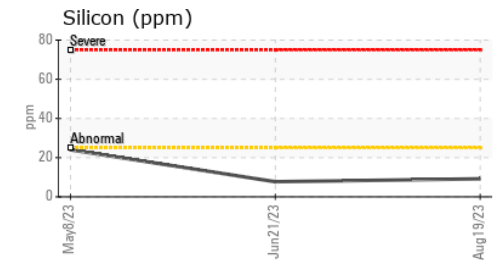
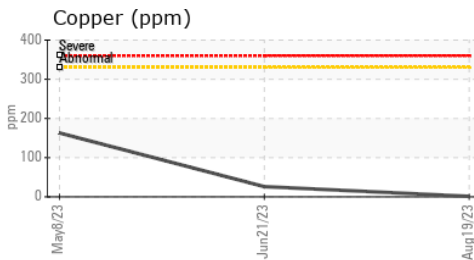
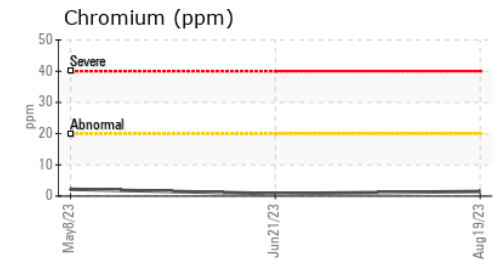
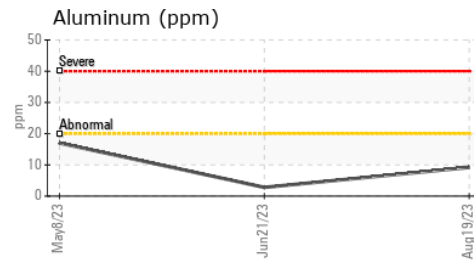
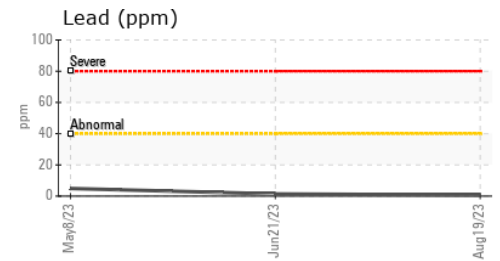
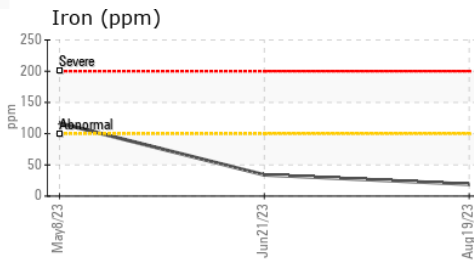
# OIL ANALYSIS REPORT



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	11.0	11.9

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0100934 **Received** : 11 Sep 2023  
**Lab Number** : 05946958 **Diagnosed** : 12 Sep 2023  
**Unique Number** : 10642917 **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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