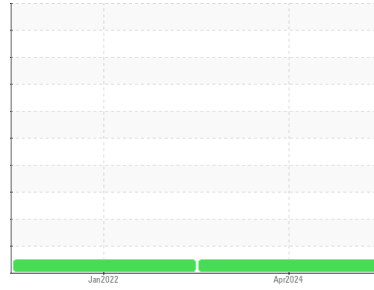


# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Area  
**Charlestown**  
Machine Id  
**556**  
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 suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>PCA0104519</b>	WC0594412	---
Sample Date	Client Info			<b>12 Apr 2024</b>	28 Jan 2022	---
Machine Age	mls	Client Info		<b>0</b>	0	---
Oil Age	mls	Client Info		<b>0</b>	0	---
Oil Changed	Client Info			<b>N/A</b>	N/A	---
Sample Status				<b>NORMAL</b>	NORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>3.0		<b>&lt;1.0</b>	<1.0	---
Water	WC Method	>0.2		<b>NEG</b>	NEG	---
Glycol	WC Method			<b>NEG</b>	NEG	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	<b>29</b>	28	---
Chromium	ppm	ASTM D5185m	>20	<b>2</b>	3	---
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	1	---
Titanium	ppm	ASTM D5185m	>2	<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m	>2	<b>0</b>	<1	---
Aluminum	ppm	ASTM D5185m	>30	<b>12</b>	12	---
Lead	ppm	ASTM D5185m	>30	<b>&lt;1</b>	<1	---
Copper	ppm	ASTM D5185m	>30	<b>7</b>	3	---
Tin	ppm	ASTM D5185m	>15	<b>1</b>	<1	---
Antimony	ppm	ASTM D5185m		<b>---</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Cadmium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---

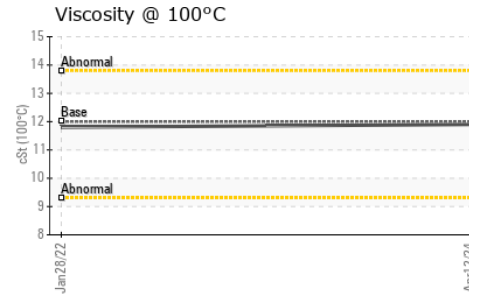
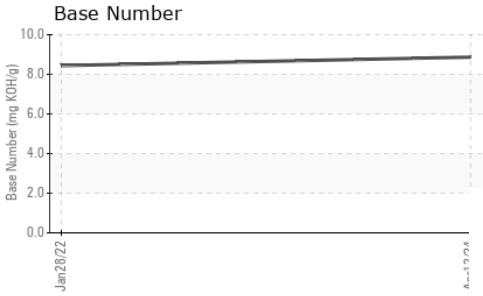
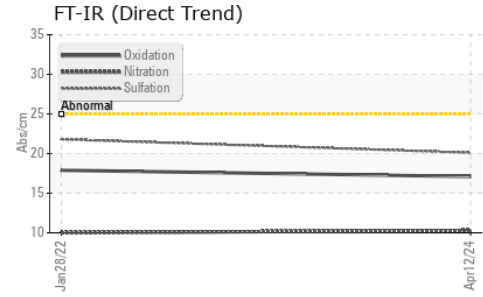
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	<b>4</b>	9	---
Barium	ppm	ASTM D5185m	0	<b>1</b>	0	---
Molybdenum	ppm	ASTM D5185m	50	<b>63</b>	64	---
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m	950	<b>1042</b>	1132	---
Calcium	ppm	ASTM D5185m	1050	<b>1204</b>	1197	---
Phosphorus	ppm	ASTM D5185m	995	<b>1179</b>	1135	---
Zinc	ppm	ASTM D5185m	1180	<b>1365</b>	1408	---
Sulfur	ppm	ASTM D5185m	2600	<b>3475</b>	2858	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	<b>6</b>	1	---
Sodium	ppm	ASTM D5185m		<b>2</b>	2	---
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	4	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	<b>0.7</b>	0.7	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>10.3</b>	10.0	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.1</b>	21.8	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>17.1</b>	17.9	---
Base Number (BN)	mg KOH/g	ASTM D2896		<b>8.87</b>	8.44	---

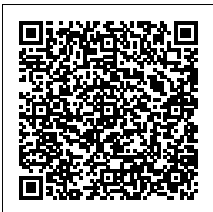
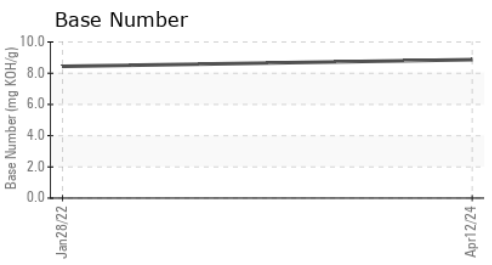
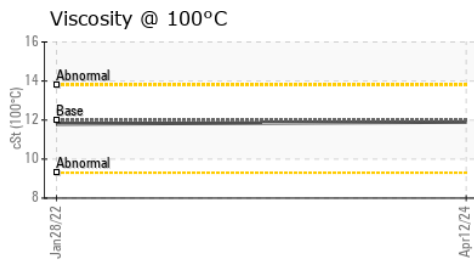
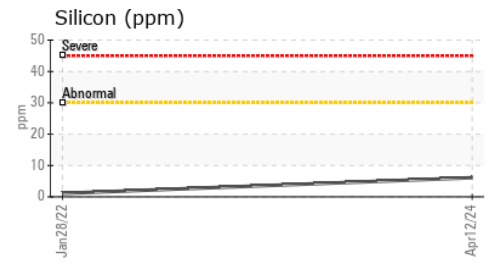
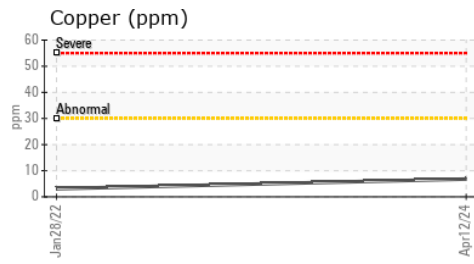
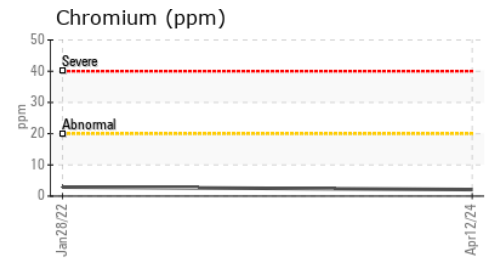
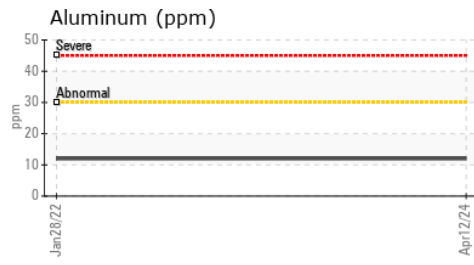
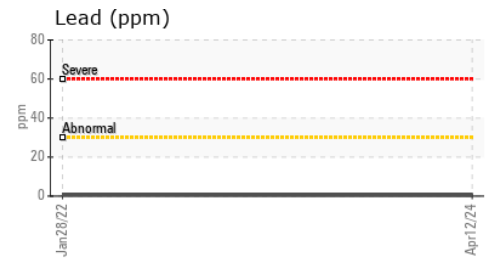
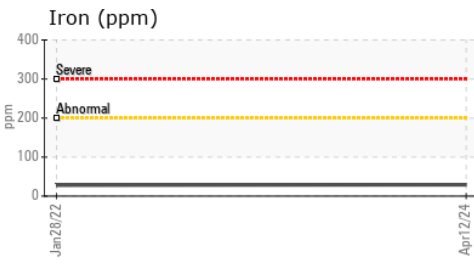
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.00	11.9	11.8

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0104519      **Received** : 16 Apr 2024  
**Lab Number** : **06150614**      **Tested** : 17 Apr 2024  
**Unique Number** : 10980692      **Diagnosed** : 17 Apr 2024 - Wes Davis  
**Test Package** : MOB 2

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 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)