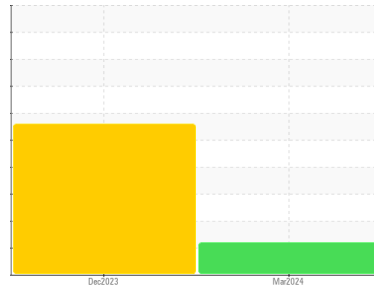


OIL ANALYSIS REPORT

Sample Rating Trend



FUEL



Machine Id
141 (S/N 73591295)

Component
Diesel Engine

Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS

▲ Recommendation

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

▲ Contamination

There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

▲ Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			PCA0093084	PCA0093081	---
Sample Date	Client Info			06 Mar 2024	20 Dec 2023	---
Machine Age	mls	Client Info		629928	618566	---
Oil Age	mls	Client Info		11362	23920	---
Oil Changed	Client Info			Changed	Changed	---
Sample Status				ABNORMAL	SEVERE	---

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method	>0.2		NEG	NEG	---
Glycol	WC Method			NEG	NEG	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	48	▲ 103	---
Chromium	ppm	ASTM D5185m	>20	1	2	---
Nickel	ppm	ASTM D5185m	>4	0	2	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m	>3	0	0	---
Aluminum	ppm	ASTM D5185m	>20	3	● 6	---
Lead	ppm	ASTM D5185m	>40	<1	1	---
Copper	ppm	ASTM D5185m	>330	1	2	---
Tin	ppm	ASTM D5185m	>15	<1	<1	---
Vanadium	ppm	ASTM D5185m		0	0	---
Cadmium	ppm	ASTM D5185m		0	0	---

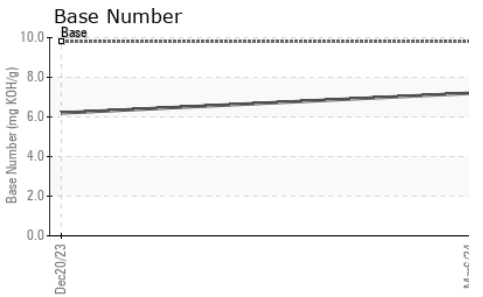
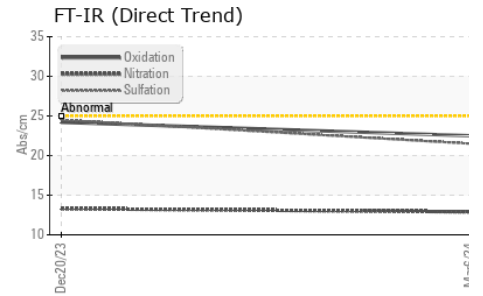
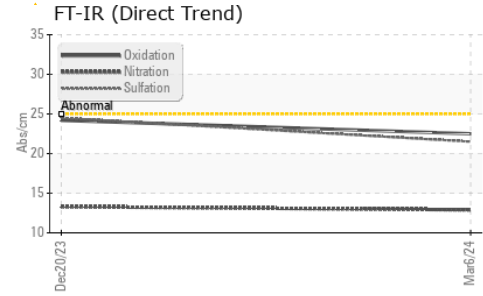
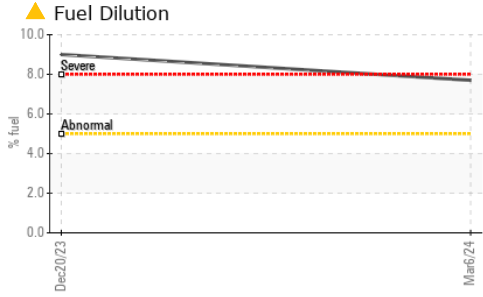
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	7	32	---
Barium	ppm	ASTM D5185m	0	0	<1	---
Molybdenum	ppm	ASTM D5185m	60	59	57	---
Manganese	ppm	ASTM D5185m	0	<1	1	---
Magnesium	ppm	ASTM D5185m	1010	802	285	---
Calcium	ppm	ASTM D5185m	1070	1170	1557	---
Phosphorus	ppm	ASTM D5185m	1150	970	834	---
Zinc	ppm	ASTM D5185m	1270	1169	1026	---
Sulfur	ppm	ASTM D5185m	2060	3341	2541	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8	▲ 26	---
Sodium	ppm	ASTM D5185m		2	4	---
Potassium	ppm	ASTM D5185m	>20	<1	4	---
Fuel	%	ASTM D3524	>5	▲ 7.7	▲ 9.0	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.6	---
Nitration	Abs/cm	*ASTM D7624	>20	12.9	13.3	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.5	24.5	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.5	24.2	---
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.2	6.2	---

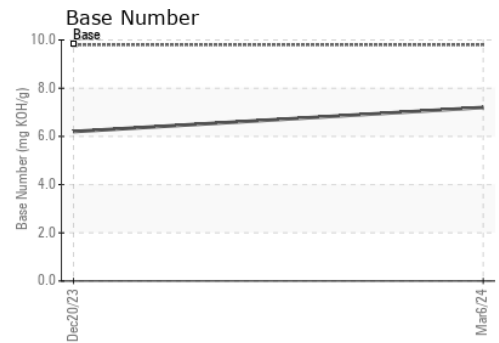
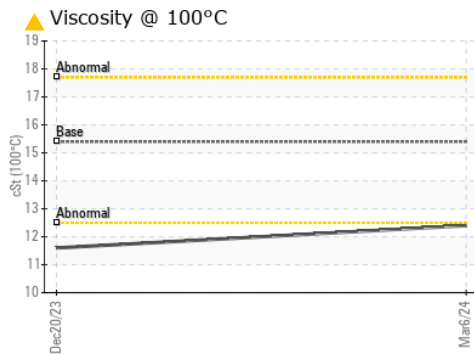
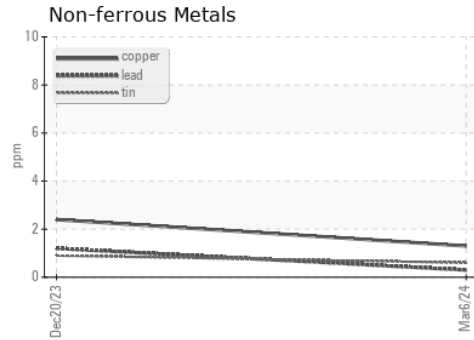
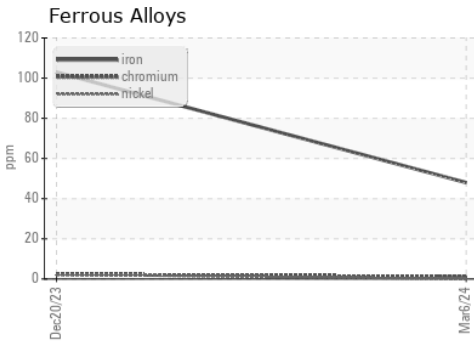
OIL ANALYSIS REPORT



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	15.4	▲ 12.4	▲ 11.6

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0093084 **Received** : 26 Apr 2024
Lab Number : **06161158** **Tested** : 29 Apr 2024
Unique Number : 10996581 **Diagnosed** : 29 Apr 2024 - Wes Davis
Test Package : FLEET (Additional Tests: PercentFuel)

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 US 38242
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 cbush@mccartneyproduce.com
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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)