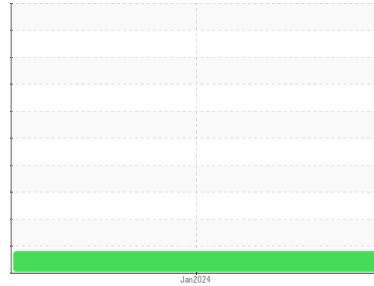


OIL ANALYSIS REPORT

Sample Rating Trend



SOOT



Machine Id
LW0350

Component
Diesel Engine

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

DIAGNOSIS

▲ Recommendation

We advise that you check for faulty combustion, plugged air filters, or aftercoolers. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

▲ Contamination

There is an abnormal amount of solids and carbon present in the oil.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PCA0113580	---	---
Sample Date	Client Info	05 Jan 2024	---	---
Machine Age	mls Client Info	0	---	---
Oil Age	mls Client Info	0	---	---
Oil Changed	Client Info	Changed	---	---
Sample Status		ABNORMAL	---	---

CONTAMINATION

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

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm	ASTM D5185m >100	88	---	---
Chromium ppm	ASTM D5185m >20	0	---	---
Nickel ppm	ASTM D5185m >4	0	---	---
Titanium ppm	ASTM D5185m	0	---	---
Silver ppm	ASTM D5185m >3	0	---	---
Aluminum ppm	ASTM D5185m >20	3	---	---
Lead ppm	ASTM D5185m >40	0	---	---
Copper ppm	ASTM D5185m >330	4	---	---
Tin ppm	ASTM D5185m >15	0	---	---
Vanadium ppm	ASTM D5185m	0	---	---
Cadmium ppm	ASTM D5185m	0	---	---

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm	ASTM D5185m 2	10	---	---
Barium ppm	ASTM D5185m 0	0	---	---
Molybdenum ppm	ASTM D5185m 50	69	---	---
Manganese ppm	ASTM D5185m 0	0	---	---
Magnesium ppm	ASTM D5185m 950	1003	---	---
Calcium ppm	ASTM D5185m 1050	1309	---	---
Phosphorus ppm	ASTM D5185m 995	1152	---	---
Zinc ppm	ASTM D5185m 1180	1395	---	---
Sulfur ppm	ASTM D5185m 2600	3805	---	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185m >25	5	---	---
Sodium ppm	ASTM D5185m	2	---	---
Potassium ppm	ASTM D5185m >20	<1	---	---
Fuel %	ASTM D3524 >5	<1.0	---	---

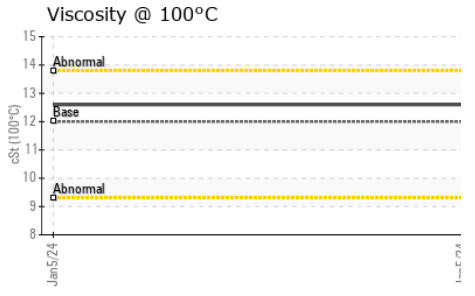
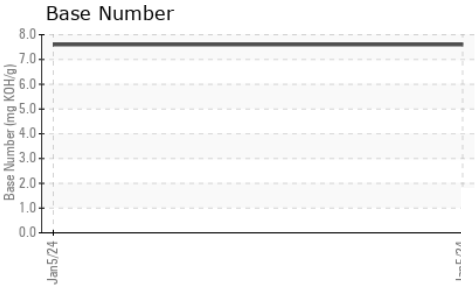
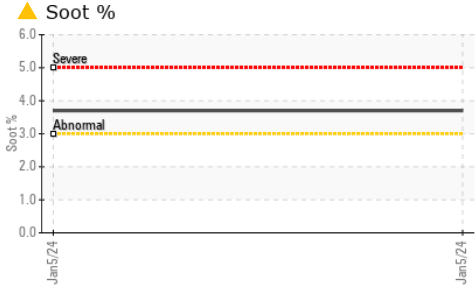
INFRA-RED

method	limit/base	current	history1	history2
Soot %	*ASTM D7844 >3	▲ 3.7	---	---
Nitration Abs/cm	*ASTM D7624 >20	14.4	---	---
Sulfation Abs/.1mm	*ASTM D7415 >30	26.1	---	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation Abs/.1mm	*ASTM D7414 >25	19.1	---	---
Base Number (BN) mg KOH/g	ASTM D2896	7.6	---	---

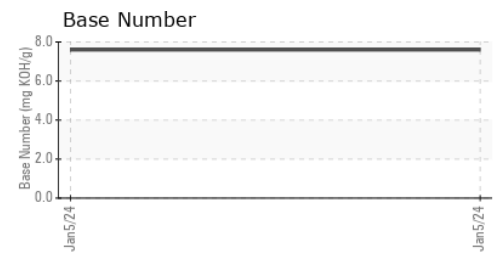
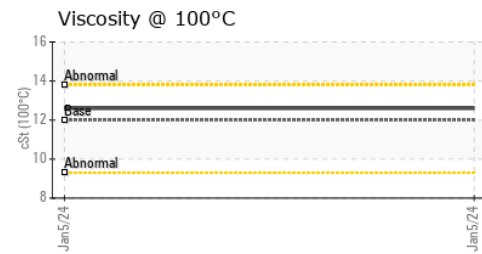
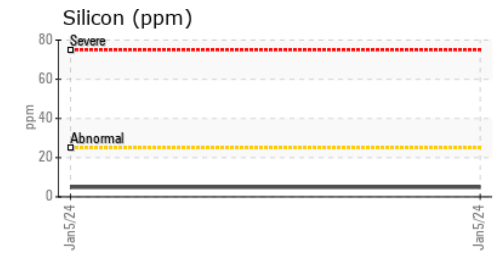
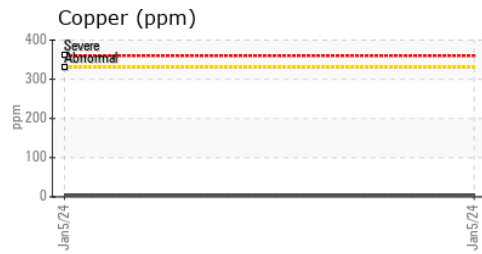
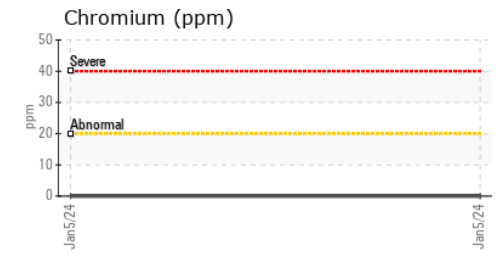
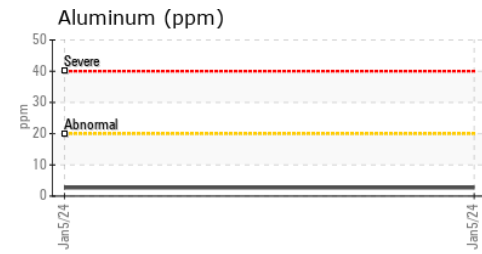
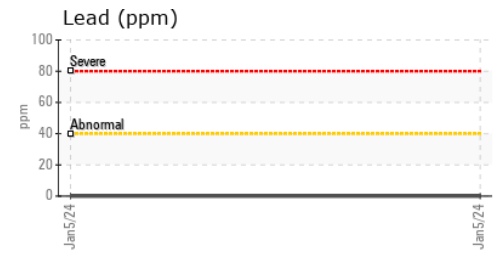
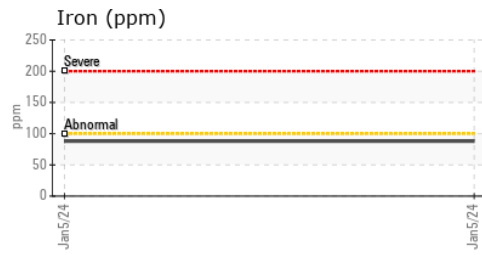
OIL ANALYSIS REPORT



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	12.6	---	---

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0113580 **Received** : 21 Mar 2024
Lab Number : **06124667** **Tested** : 23 Mar 2024
Unique Number : 10938818 **Diagnosed** : 23 Mar 2024 - Don Baldrige
Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel, TBN)

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 T: (856)214-3521
 F: (856)214-3663

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)