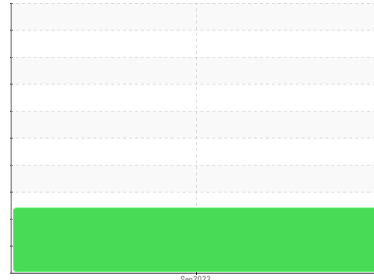


OIL ANALYSIS REPORT

Sample Rating Trend


FUEL

 Machine Id
LIGHT PLANT

 Component
Diesel Engine
 Fluid

PETRO CANADA DURON SHP 15W40 (--- GAL)
DIAGNOSIS
▲ Recommendation

The oil change at the time of sampling has been noted. 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 components first oil change.

▲ Contamination

Light fuel dilution occurring.

▲ 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 condition of the oil is suitable for further service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PCA0106861	---	---
Sample Date	Client Info	23 Sep 2023	---	---
Machine Age	hrs	Client Info	305	---
Oil Age	hrs	Client Info	305	---
Oil Changed	Client Info	Changed	---	---
Sample Status		ABNORMAL	---	---

CONTAMINATION

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

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	10	---
Chromium	ppm	ASTM D5185m >20	<1	---
Nickel	ppm	ASTM D5185m >4	<1	---
Titanium	ppm	ASTM D5185m	0	---
Silver	ppm	ASTM D5185m >3	0	---
Aluminum	ppm	ASTM D5185m >20	3	---
Lead	ppm	ASTM D5185m >40	<1	---
Copper	ppm	ASTM D5185m >330	8	---
Tin	ppm	ASTM D5185m >15	6	---
Vanadium	ppm	ASTM D5185m	0	---
Cadmium	ppm	ASTM D5185m	0	---

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	▲ 78	---
Barium	ppm	ASTM D5185m 0	0	---
Molybdenum	ppm	ASTM D5185m 60	64	---
Manganese	ppm	ASTM D5185m 0	1	---
Magnesium	ppm	ASTM D5185m 1010	▲ 491	---
Calcium	ppm	ASTM D5185m 1070	▲ 1717	---
Phosphorus	ppm	ASTM D5185m 1150	1010	---
Zinc	ppm	ASTM D5185m 1270	1213	---
Sulfur	ppm	ASTM D5185m 2060	3537	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	14	---
Sodium	ppm	ASTM D5185m	1	---
Potassium	ppm	ASTM D5185m >20	1	---
Fuel	%	ASTM D3524 >5	▲ 2.6	---

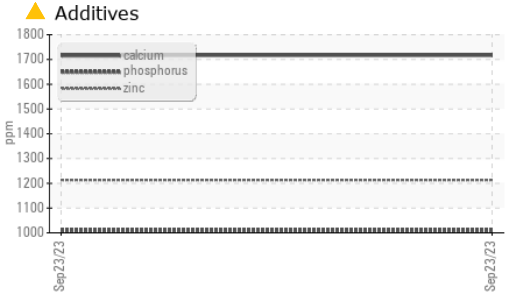
INFRA-RED

method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.1	---
Nitration	Abs/cm	*ASTM D7624 >20	5.4	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	17.7	---

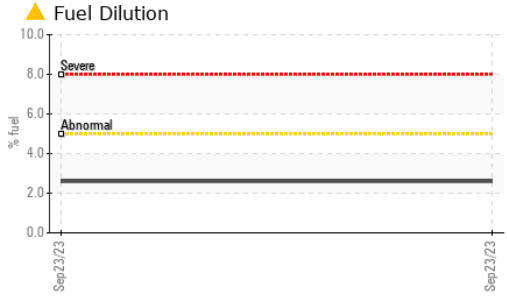
FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	13.8	---
Base Number (BN)	mg KOH/g	ASTM D2896 9.8	9.6	---

OIL ANALYSIS REPORT

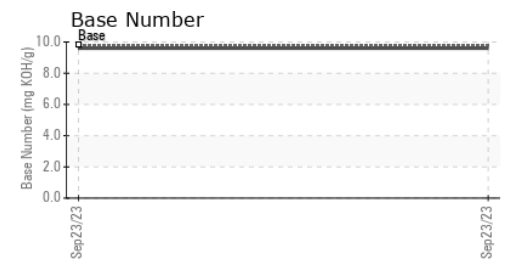
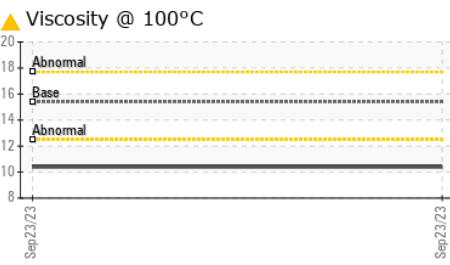
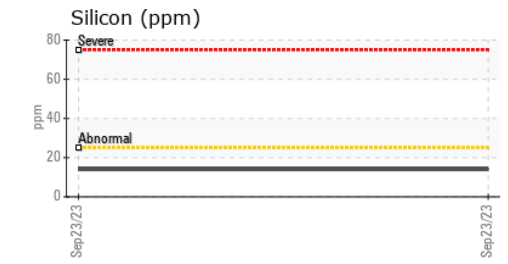
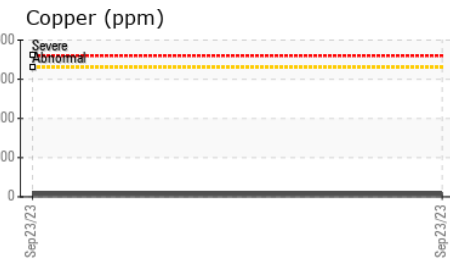
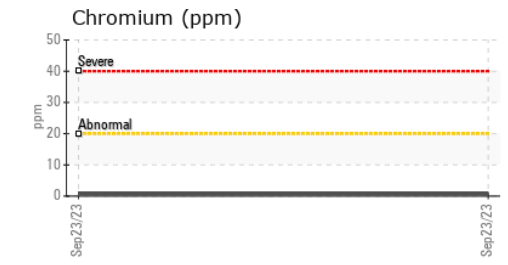
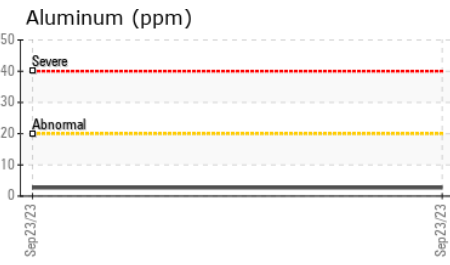
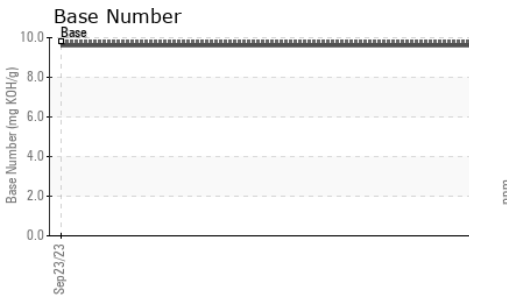
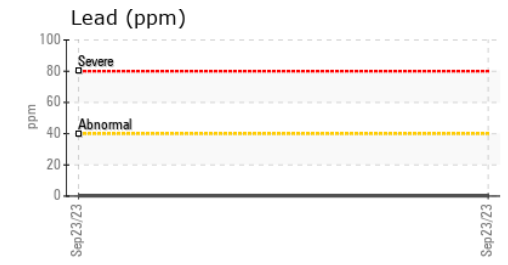
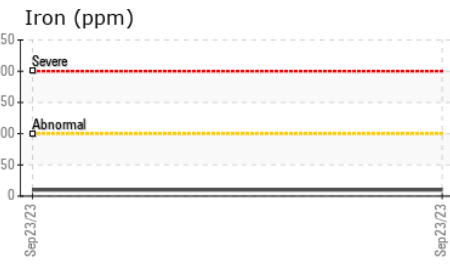
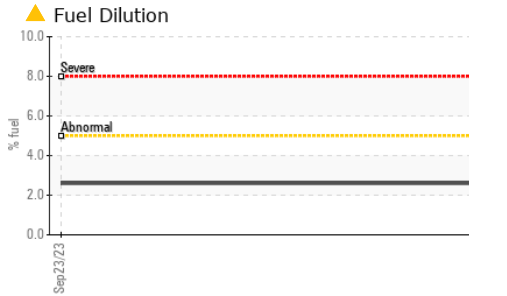


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*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	15.4	▲ 10.4	---

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0106861 **Received** : 02 Oct 2023
Lab Number : 05965980 **Diagnosed** : 04 Oct 2023
Unique Number : 10672531 **Diagnostician** : Wes Davis
Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel, TBN)

GE MARSHALL EXCAVATION
 1351 JOLIET RD
 VALPARAISO, IN
 US 46385
 Contact: MARK STEFFEL
 mark.steffel@gemarshall.com

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)