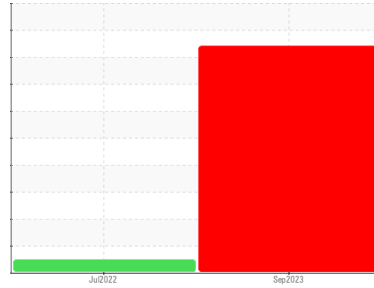


OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id
ADVANCE MIXER M126 (S/N KCB37533)

Component
Diesel Engine

Fluid
PETRO CANADA DURON HP 15W40 (--- QTS)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

Wear

Bearing wear is indicated.

Contamination

Elemental level of silicon (Si) above normal indicating ingress of seal material.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PCA0098509	WC0570766	---
Sample Date	Client Info		04 Sep 2023	16 Jul 2022	---
Machine Age	hrs	Client Info	22645	22087	---
Oil Age	hrs	Client Info	22645	22087	---
Oil Changed	Client Info		Changed	Changed	---
Sample Status			SEVERE	NORMAL	---

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<1.0	<1.0	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	85	69	---
Chromium	ppm	ASTM D5185m >20	2	2	---
Nickel	ppm	ASTM D5185m >4	<1	0	---
Titanium	ppm	ASTM D5185m	<1	<1	---
Silver	ppm	ASTM D5185m >3	0	<1	---
Aluminum	ppm	ASTM D5185m >20	4	12	---
Lead	ppm	ASTM D5185m >40	20	4	---
Copper	ppm	ASTM D5185m >330	790	8	---
Tin	ppm	ASTM D5185m >15	21	1	---
Vanadium	ppm	ASTM D5185m	0	0	---
Cadmium	ppm	ASTM D5185m	0	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	28	31	---
Barium	ppm	ASTM D5185m	0	0	---
Molybdenum	ppm	ASTM D5185m	49	66	---
Manganese	ppm	ASTM D5185m	3	<1	---
Magnesium	ppm	ASTM D5185m	602	971	---
Calcium	ppm	ASTM D5185m	1677	1194	---
Phosphorus	ppm	ASTM D5185m	952	1053	---
Zinc	ppm	ASTM D5185m	1173	1284	---
Sulfur	ppm	ASTM D5185m	2900	3660	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	94	6	---
Sodium	ppm	ASTM D5185m	16	3	---
Potassium	ppm	ASTM D5185m >20	4	0	---
Glycol	%	*ASTM D2982	NEG	NEG	---

INFRA-RED

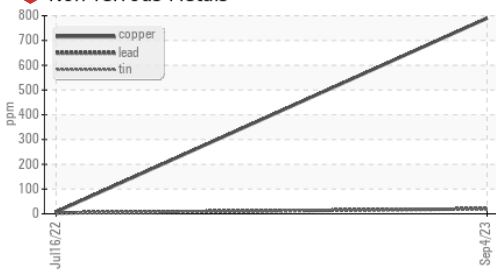
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.6	0.9	---
Nitration	Abs/cm	*ASTM D7624 >20	10.6	11.0	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	22.4	24.0	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	21.5	19.5	---
Base Number (BN)	mg KOH/g	ASTM D2896 9.8	10.11	7.95	---

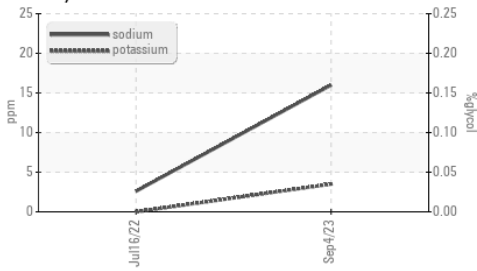
OIL ANALYSIS REPORT

Non-ferrous Metals



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	---

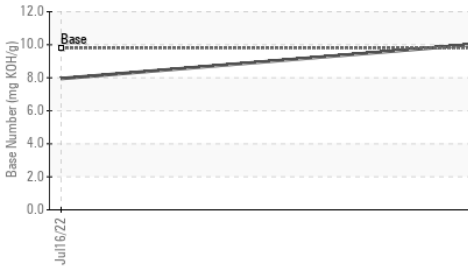
Glycol Contamination



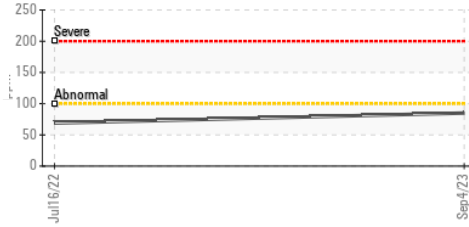
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.6	13.3	14.2

GRAPHS

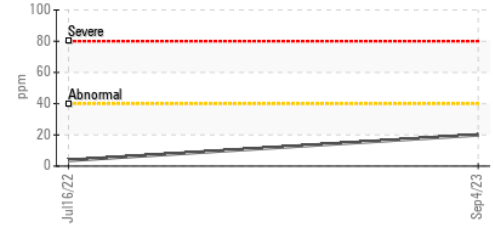
Base Number



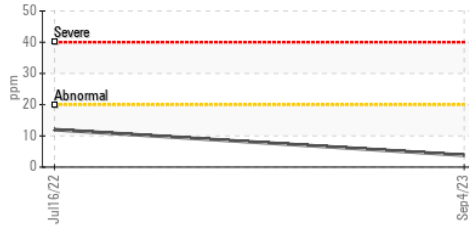
Iron (ppm)



Lead (ppm)



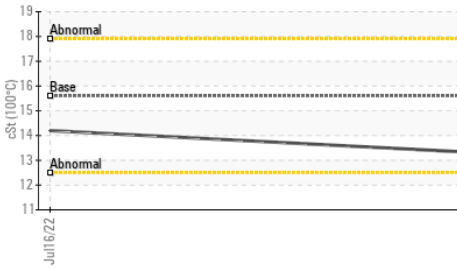
Aluminum (ppm)



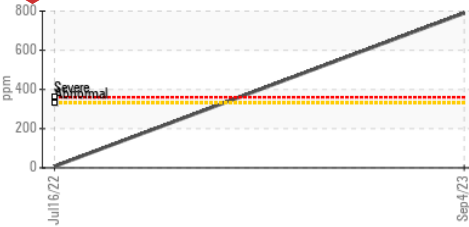
Chromium (ppm)



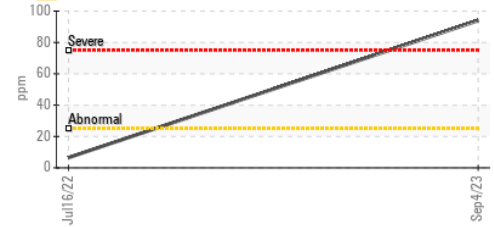
Viscosity @ 100°C



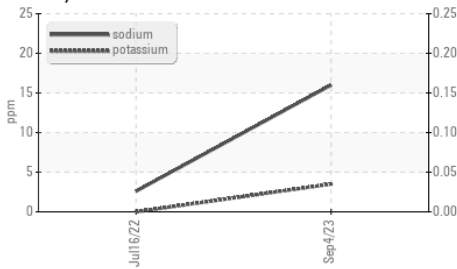
Copper (ppm)



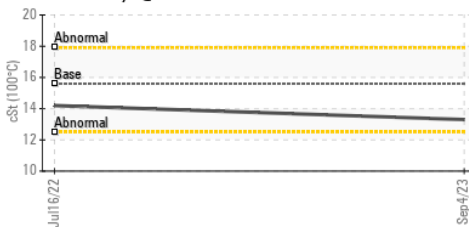
Silicon (ppm)



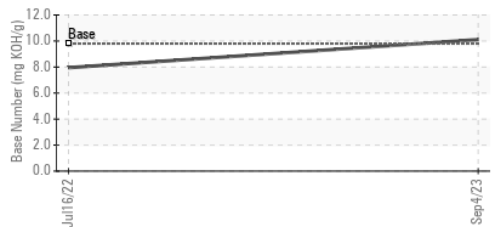
Glycol Contamination



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0098509 **Received** : 04 Oct 2023
Lab Number : 05969790 **Diagnosed** : 09 Oct 2023
Unique Number : 10681740 **Diagnostician** : Sean Felton
Test Package : MOB 2 (Additional Tests: Glycol)

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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