



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

CROSSMAN

Machine Id

ONAN H190623517

Component

Genset

Fluid

DIESEL ENGINE OIL SAE 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VPA057378	VPA035782	---
Sample Date		Client Info		07 Jul 2024	09 Oct 2023	---
Machine Age	hrs	Client Info		437	404	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		N/A	Not Changd	---
Filter Changed		Client Info		N/A	Not Changd	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	3	7	---
Chromium	ppm	ASTM D5185m	>4	0	<1	---
Nickel	ppm	ASTM D5185m	>2	<1	<1	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m	>5	0	0	---
Aluminum	ppm	ASTM D5185m	>12	2	<1	---
Lead	ppm	ASTM D5185m	>17	0	<1	---
Copper	ppm	ASTM D5185m	>70	1	2	---
Tin	ppm	ASTM D5185m	>15	<1	<1	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

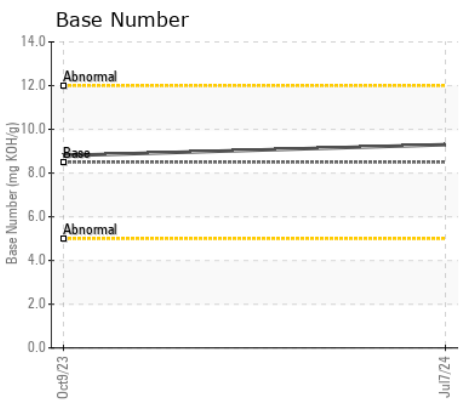
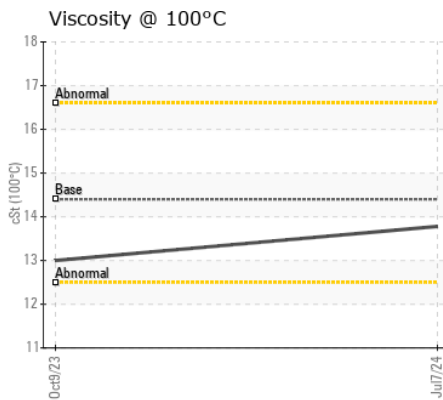
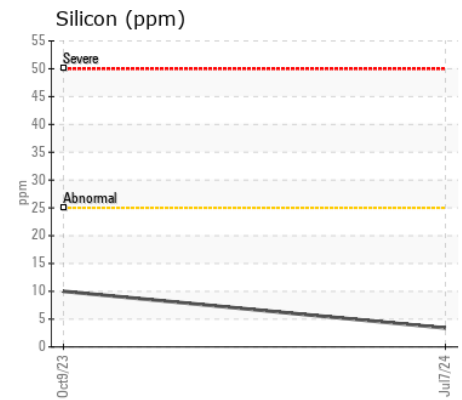
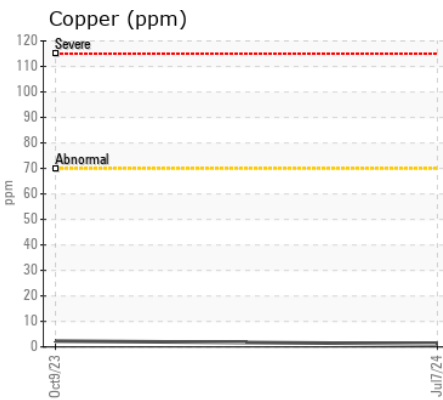
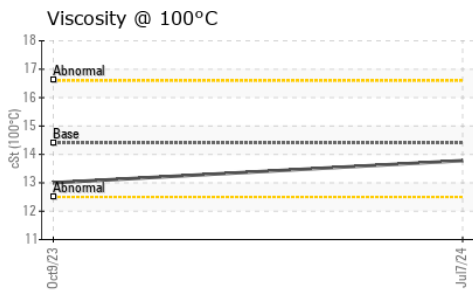
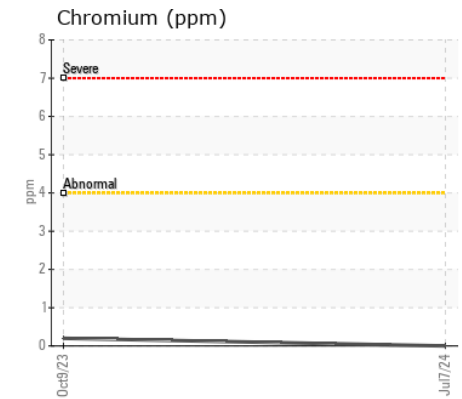
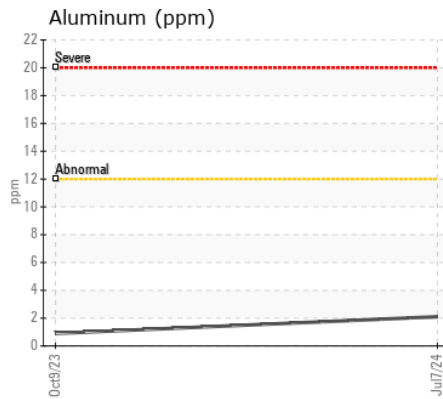
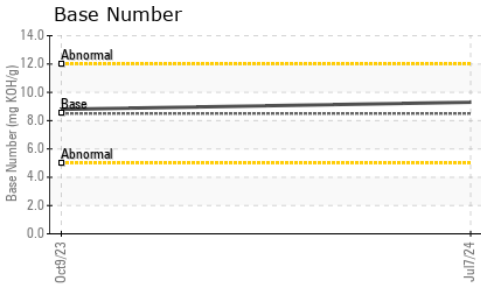
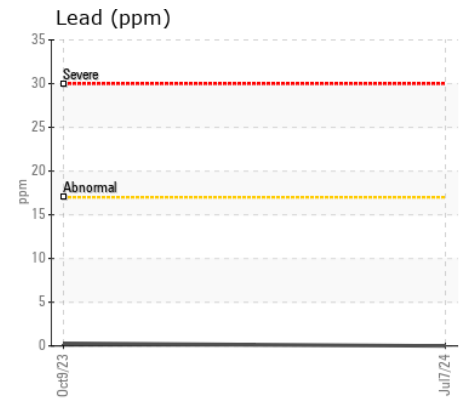
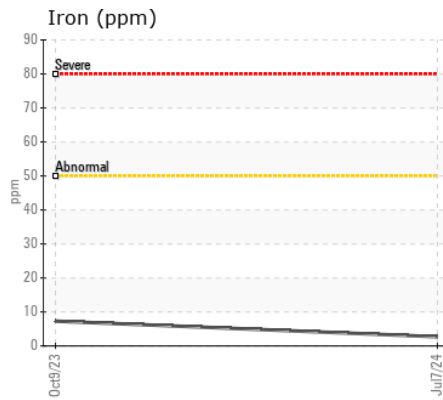
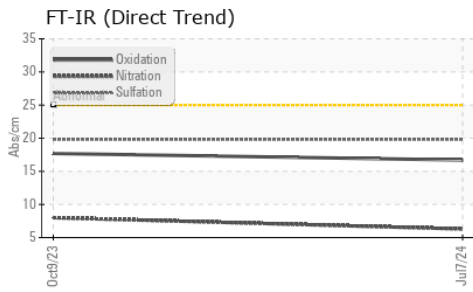
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	3	10	---
Potassium	ppm	ASTM D5185m	>20	3	3	---
Fuel		WC Method	>4.0	<1.0	<1.0	---
Water		WC Method	>0.1	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844		0.1	0.1	---
Nitration	Abs/cm	*ASTM D7624	>20	6.3	8.0	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.8	19.8	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	---

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.

Sodium	ppm	ASTM D5185m	>158	3	1	---
Boron	ppm	ASTM D5185m	250	56	57	---
Barium	ppm	ASTM D5185m	10	0	2	---
Molybdenum	ppm	ASTM D5185m	100	46	36	---
Manganese	ppm	ASTM D5185m		0	<1	---
Magnesium	ppm	ASTM D5185m	450	762	600	---
Calcium	ppm	ASTM D5185m	3000	1232	1291	---
Phosphorus	ppm	ASTM D5185m	1150	772	742	---
Zinc	ppm	ASTM D5185m	1350	911	908	---
Sulfur	ppm	ASTM D5185m	4250	3147	2614	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.7	17.7	---
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	9.3	8.8	---
Visc @ 100°C	cSt	ASTM D445	14.4	13.78	13.0	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VPA057378 **Received** : 08 Jul 2024
Lab Number : 06230722 **Tested** : 08 Jul 2024
Unique Number : 11114215 **Diagnosed** : 08 Jul 2024 - Doug Bogart
Test Package : MOB 1 (Additional Tests: TBN)

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)

Outstanding Marine

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