



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
ONAN I180406923
 Component
Genset
 Fluid
DIESEL ENGINE OIL SAE 15W40 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VPA059408	VPA040296	---
Sample Date		Client Info		09 Jul 2024	05 Nov 2021	---
Machine Age	hrs	Client Info		1623	847	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		N/A	Not Chngd	---
Filter Changed		Client Info		N/A	Not Chngd	---
Sample Status				NORMAL	ATTENTION	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	10	7	---
Chromium	ppm	ASTM D5185m	>4	<1	<1	---
Nickel	ppm	ASTM D5185m	>2	<1	<1	---
Titanium	ppm	ASTM D5185m		2	<1	---
Silver	ppm	ASTM D5185m	>5	<1	0	---
Aluminum	ppm	ASTM D5185m	>12	2	2	---
Lead	ppm	ASTM D5185m	>17	<1	<1	---
Copper	ppm	ASTM D5185m	>70	3	1	---
Tin	ppm	ASTM D5185m	>15	<1	<1	---
Vanadium	ppm	ASTM D5185m		<1	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

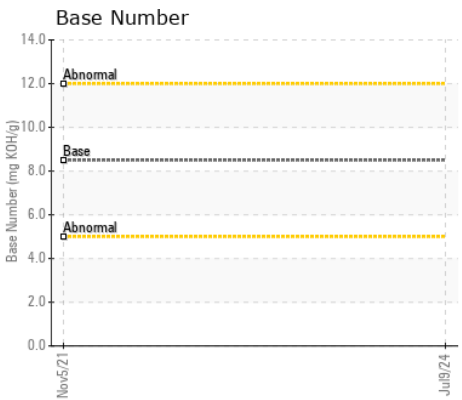
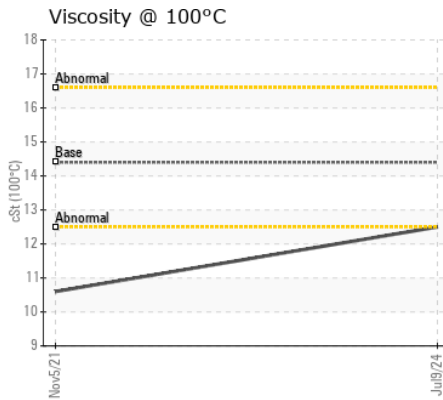
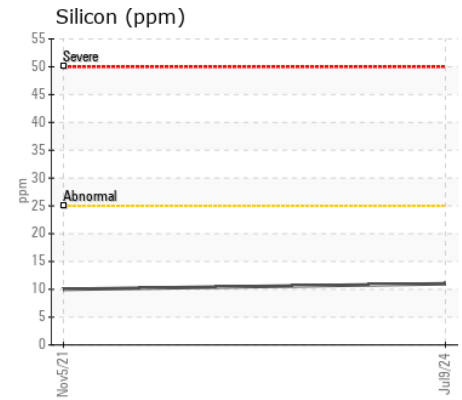
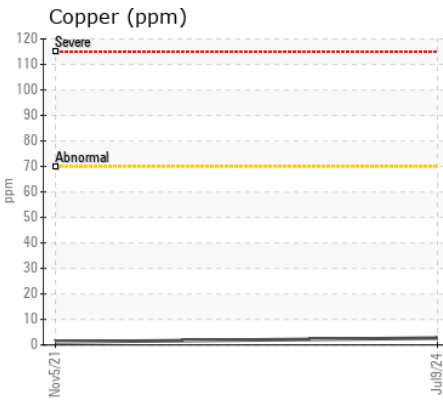
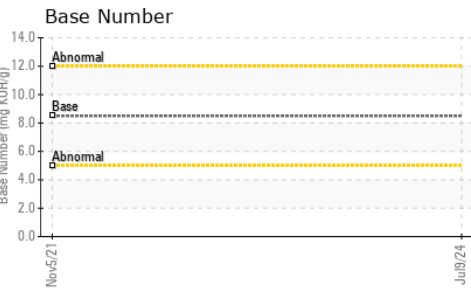
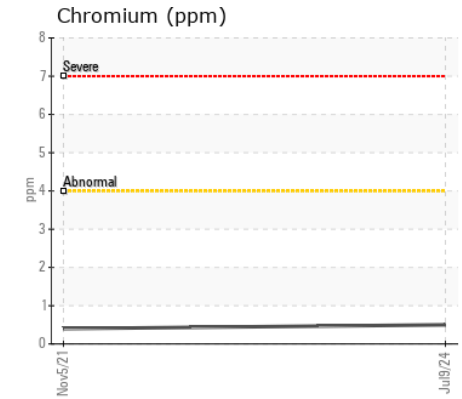
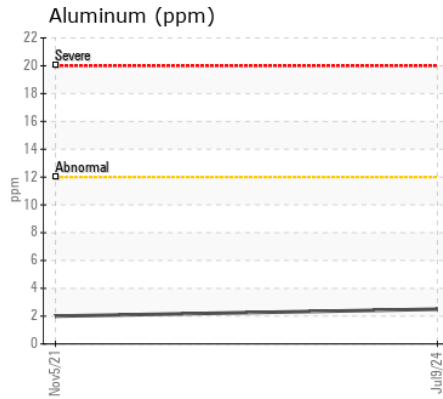
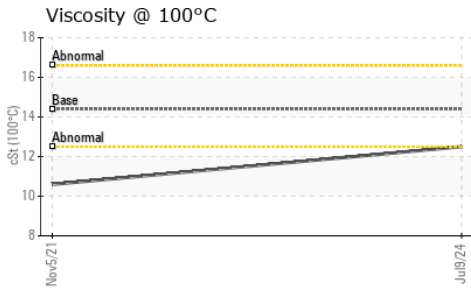
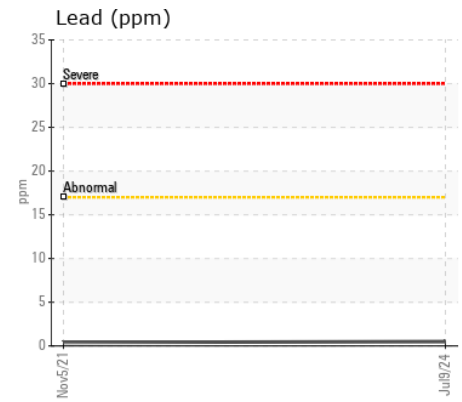
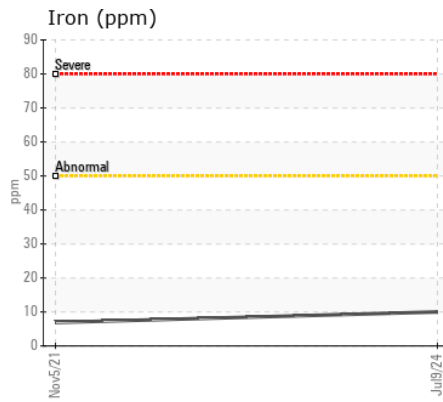
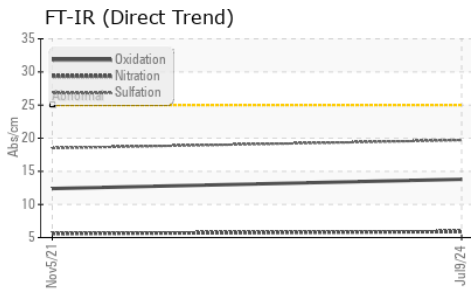
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	11	10	---
Potassium	ppm	ASTM D5185m	>20	3	1	---
Fuel		WC Method	>4.0	<1.0	1.4	---
Water		WC Method	>0.1	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844		0.2	0.2	---
Nitration	Abs/cm	*ASTM D7624	>20	5.9	5.6	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.7	18.5	---
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 condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>158	1	1	---
Boron	ppm	ASTM D5185m	250	383	251	---
Barium	ppm	ASTM D5185m	10	1	0	---
Molybdenum	ppm	ASTM D5185m	100	96	99	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m	450	419	586	---
Calcium	ppm	ASTM D5185m	3000	1394	1375	---
Phosphorus	ppm	ASTM D5185m	1150	769	715	---
Zinc	ppm	ASTM D5185m	1350	1103	842	---
Sulfur	ppm	ASTM D5185m	4250	2771	2483	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.8	12.4	---
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.4	---	---
Visc @ 100°C	cSt	ASTM D445	14.4	12.5	10.6	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VPA059408 **Received** : 10 Jul 2024
Lab Number : 06232752 **Tested** : 10 Jul 2024
Unique Number : 11116245 **Diagnosed** : 10 Jul 2024 - Doug Bogart
Test Package : MOB 1 (Additional Tests: TBN)

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 SARASOTA, FL
 US 34240
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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)