



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ABNORMAL

Area
CARSTENSEN [JB]
Machine Id
KOHLER CARSTENSEN (S/N N/A)
Component
Center Genset
Fluid
SHELL ROTELLA T 15W40 (3 QTS)

RECOMMENDATION

We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VPA051622	---	---
Sample Date		Client Info		13 Mar 2024	---	---
Machine Age	hrs	Client Info		775	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				ABNORMAL	---	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	85	---	---
Chromium	ppm	ASTM D5185m	>4	0	---	---
Nickel	ppm	ASTM D5185m	>2	0	---	---
Titanium	ppm	ASTM D5185m		0	---	---
Silver	ppm	ASTM D5185m	>5	0	---	---
Aluminum	ppm	ASTM D5185m	>12	19	---	---
Lead	ppm	ASTM D5185m	>17	2	---	---
Copper	ppm	ASTM D5185m	>70	61	---	---
Tin	ppm	ASTM D5185m	>15	0	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

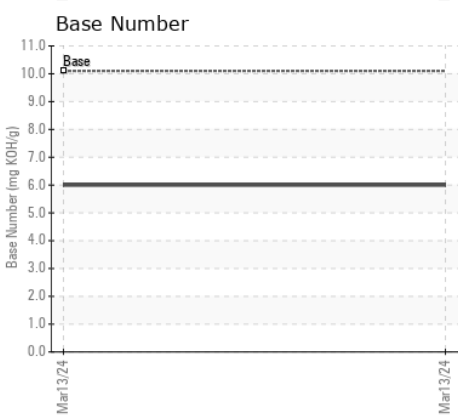
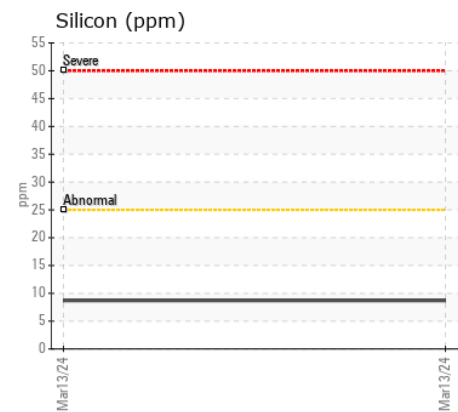
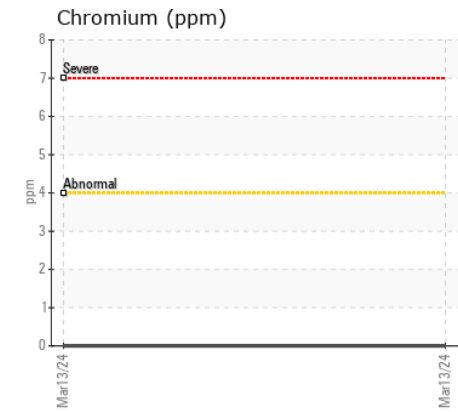
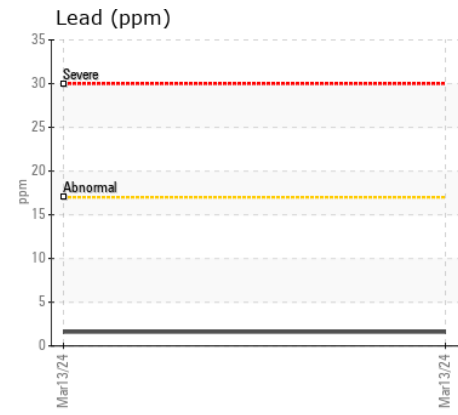
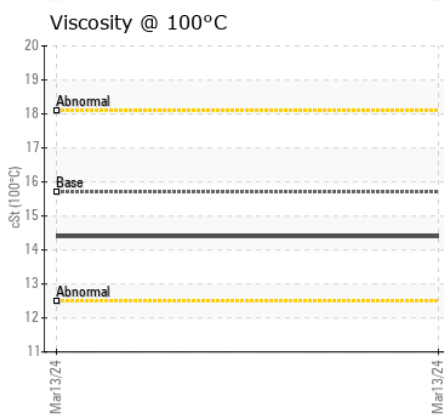
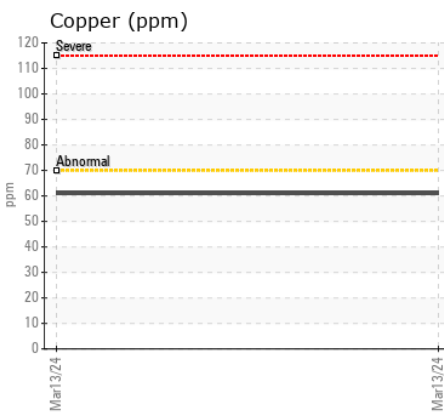
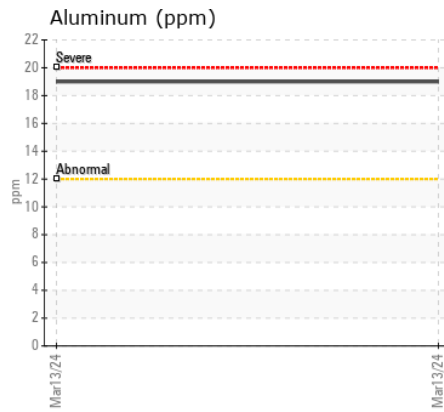
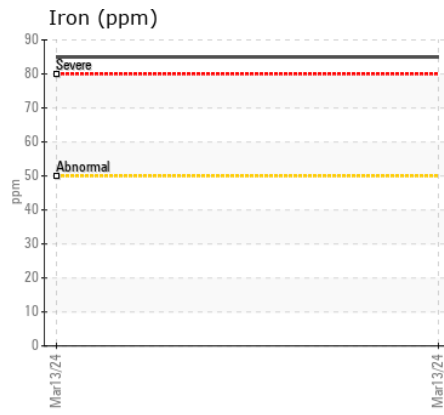
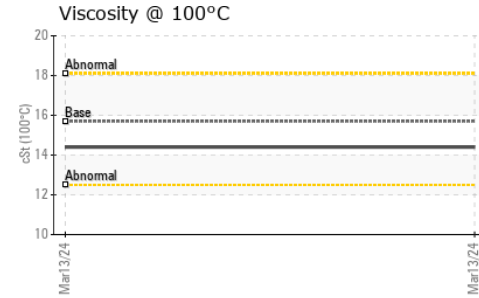
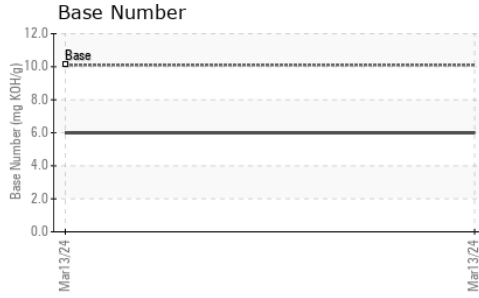
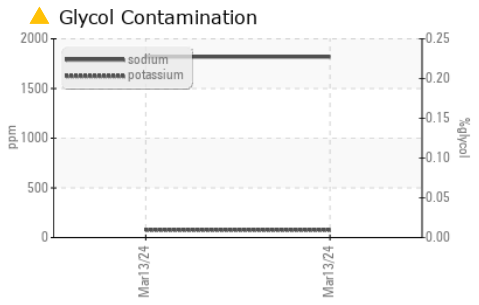
Sodium and/or potassium levels are high.

Silicon	ppm	ASTM D5185m	>25	9	---	---
Potassium	ppm	ASTM D5185m	>20	▲ 76	---	---
Fuel		WC Method	>4.0	<1.0	---	---
Water		WC Method	>0.1	NEG	---	---
Glycol		WC Method		NEG	---	---
Soot %	%	*ASTM D7844		0.3	---	---
Nitration	Abs/cm	*ASTM D7624	>20	9.7	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.0	---	---
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	>0.1	NEG	---	---

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil.

Sodium	ppm	ASTM D5185m		▲ 1818	---	---
Boron	ppm	ASTM D5185m	316	126	---	---
Barium	ppm	ASTM D5185m	0.0	0	---	---
Molybdenum	ppm	ASTM D5185m	1.2	4	---	---
Manganese	ppm	ASTM D5185m		1	---	---
Magnesium	ppm	ASTM D5185m	24	369	---	---
Calcium	ppm	ASTM D5185m	2292	2143	---	---
Phosphorus	ppm	ASTM D5185m	1064	879	---	---
Zinc	ppm	ASTM D5185m	1160	1066	---	---
Sulfur	ppm	ASTM D5185m	4996	4104	---	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.1	---	---
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	6.0	---	---
Visc @ 100°C	cSt	ASTM D445	15.7	14.4	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VPA051622 **Received** : 19 Mar 2024
Lab Number : 06122042 **Tested** : 19 Mar 2024
Unique Number : 10936193 **Diagnosed** : 21 Mar 2024 - Jonathan Hester
Test Package : MOB 1 (Additional Tests: TBN)

Point Judith Marina
 360 Gooseberry Road
 WAKEFIELD, RI
 US 02879

Contact: MATT ST. ANGELO
 service@pjmarina.com; canastasio@wearcheckusa.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)

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