



WEAR	NORMAL
CONTAMINATION	MARGINAL
FLUID CONDITION	NORMAL

Machine Id
KOHLER 33JGGMHH0009
Component
Genset
Fluid
DIESEL ENGINE OIL SAE 15W40 (--- QTS)

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		VPA036568	---	---
Sample Date		Client Info		22 Feb 2024	---	---
Machine Age	hrs	Client Info		7	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		N/A	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				MARGINAL	---	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>50	8	---	---
Chromium	ppm	ASTM D5185m	>4	<1	---	---
Nickel	ppm	ASTM D5185m	>2	<1	---	---
Titanium	ppm	ASTM D5185m		<1	---	---
Silver	ppm	ASTM D5185m	>5	0	---	---
Aluminum	ppm	ASTM D5185m	>12	3	---	---
Lead	ppm	ASTM D5185m	>17	1	---	---
Copper	ppm	ASTM D5185m	>70	5	---	---
Tin	ppm	ASTM D5185m	>15	1	---	---
Vanadium	ppm	ASTM D5185m		<1	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

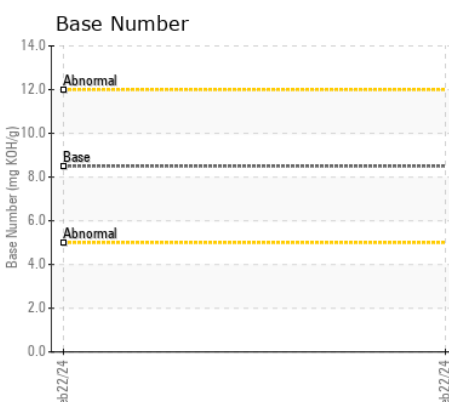
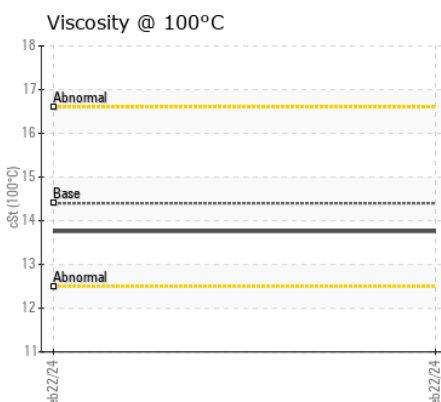
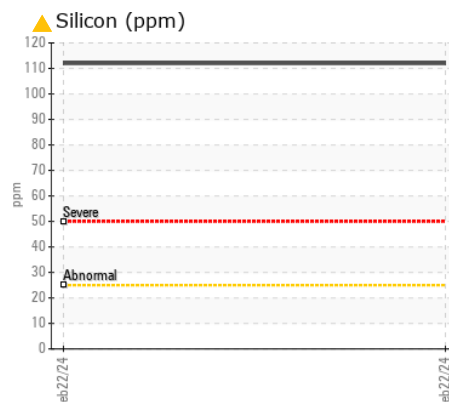
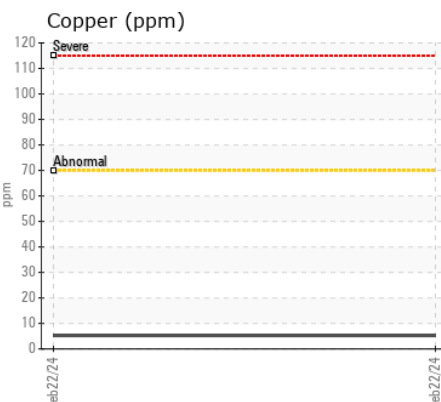
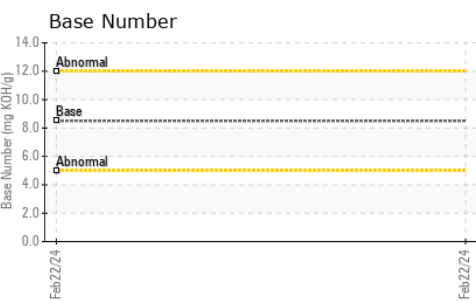
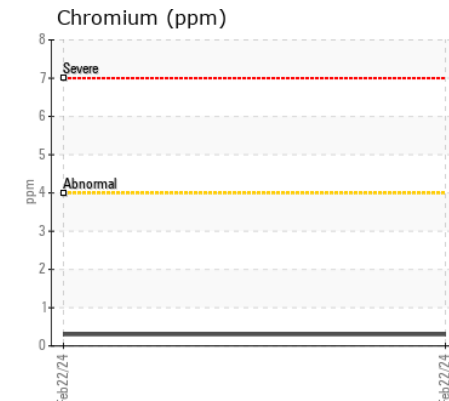
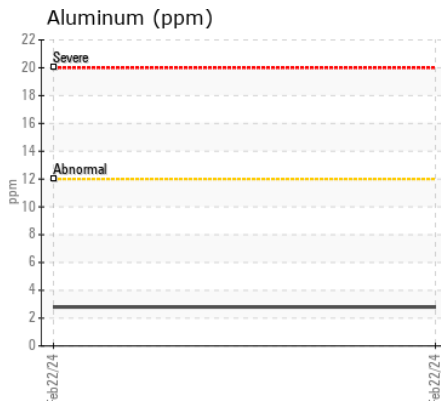
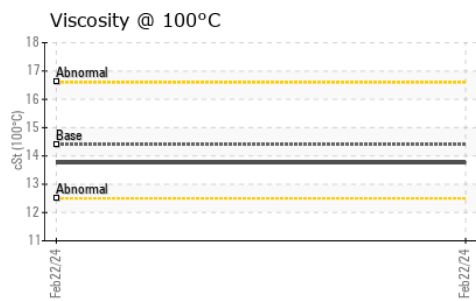
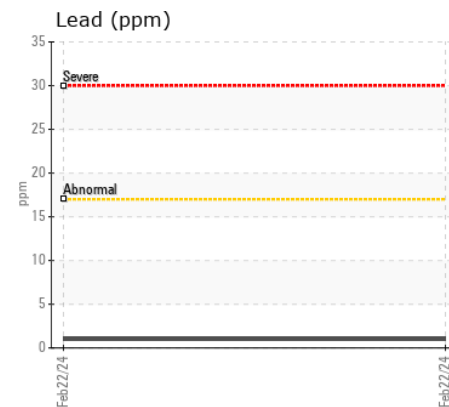
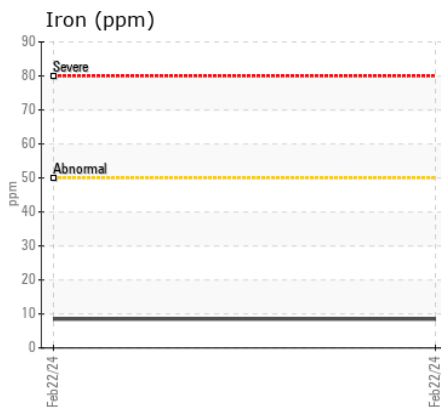
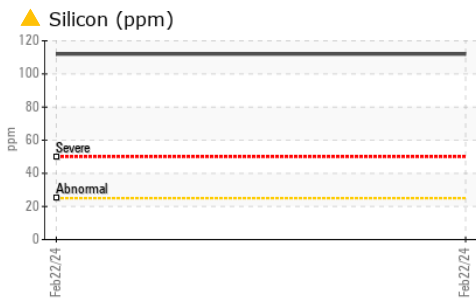
Elemental level of silicon (Si) above normal indicating ingress of seal material. Break-in material.

Silicon	ppm	ASTM D5185m	>25	▲ 112	---	---
Potassium	ppm	ASTM D5185m	>20	4	---	---
Fuel		WC Method	>4.0	<1.0	---	---
Water		WC Method	>0.1	NEG	---	---
Glycol		WC Method		NEG	---	---
Soot %	%	*ASTM D7844		0.1	---	---
Nitration	Abs/cm	*ASTM D7624	>20	5.6	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.3	---	---
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 condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>158	6	---	---
Boron	ppm	ASTM D5185m	250	113	---	---
Barium	ppm	ASTM D5185m	10	3	---	---
Molybdenum	ppm	ASTM D5185m	100	4	---	---
Manganese	ppm	ASTM D5185m		5	---	---
Magnesium	ppm	ASTM D5185m	450	548	---	---
Calcium	ppm	ASTM D5185m	3000	1265	---	---
Phosphorus	ppm	ASTM D5185m	1150	841	---	---
Zinc	ppm	ASTM D5185m	1350	988	---	---
Sulfur	ppm	ASTM D5185m	4250	3736	---	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.6	---	---
Visc @ 100°C	cSt	ASTM D445	14.4	13.76	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VPA036568 **Received** : 23 Feb 2024
Lab Number : 06098856 **Tested** : 23 Feb 2024
Unique Number : 10897086 **Diagnosed** : 23 Feb 2024 - Doug Bogart
Test Package : MOB 1 (Additional Tests: TBN)

SUNCOAST DIESEL MARINE
 6341 PORTER ROAD, SUITE 6
 SARASOTA, FL
 US 34240
 Contact: SERVICE MANAGER
 info@suncoastdmi.com
 T: (941)342-0033
 F:

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)