



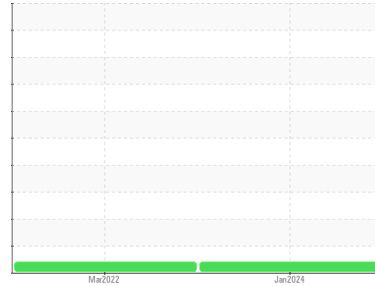
OIL ANALYSIS REPORT

Sample Rating Trend

VISCOSITY



Machine Id
VOLVO EC350E 314263
 Component
Diesel Engine
 Fluid
MOBIL 15W40 (--- GAL)



DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. (Customer Sample Comment: 500 hour service)

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0886266	VCP358636	---
Sample Date	Client Info		12 Jan 2024	31 Mar 2022	---
Machine Age	hrs	Client Info	3511	1124	---
Oil Age	hrs	Client Info	500	0	---
Oil Changed	Client Info		Changed	Changed	---
Sample Status			ATTENTION	ATTENTION	---

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	NEG	NEG	---
Glycol	WC Method		NEG	NEG	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	6	8	---
Chromium	ppm	ASTM D5185m >10	0	<1	---
Nickel	ppm	ASTM D5185m >10	<1	0	---
Titanium	ppm	ASTM D5185m	0	<1	---
Silver	ppm	ASTM D5185m >2	0	0	---
Aluminum	ppm	ASTM D5185m >10	2	1	---
Lead	ppm	ASTM D5185m >20	<1	1	---
Copper	ppm	ASTM D5185m >15	<1	4	---
Tin	ppm	ASTM D5185m >10	<1	2	---
Vanadium	ppm	ASTM D5185m	<1	0	---
Cadmium	ppm	ASTM D5185m	0	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	256	36	---
Barium	ppm	ASTM D5185m	0	0	---
Molybdenum	ppm	ASTM D5185m	128	45	---
Manganese	ppm	ASTM D5185m	<1	<1	---
Magnesium	ppm	ASTM D5185m	658	482	---
Calcium	ppm	ASTM D5185m	1620	1638	---
Phosphorus	ppm	ASTM D5185m	773	986	---
Zinc	ppm	ASTM D5185m	893	1100	---
Sulfur	ppm	ASTM D5185m	2573	2389	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	7	7	---
Sodium	ppm	ASTM D5185m >118	<1	1	---
Potassium	ppm	ASTM D5185m >20	0	1	---
Fuel	%	ASTM D3524 >6.0	<1.0	1.1	---

INFRA-RED

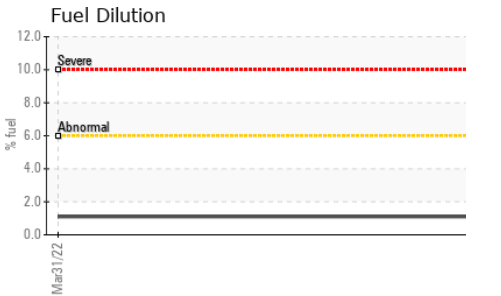
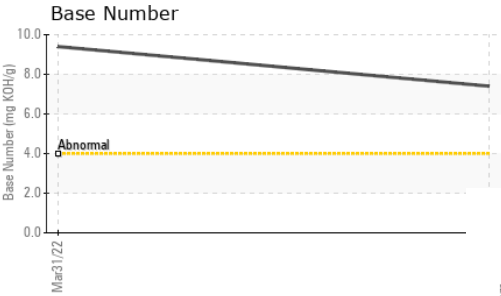
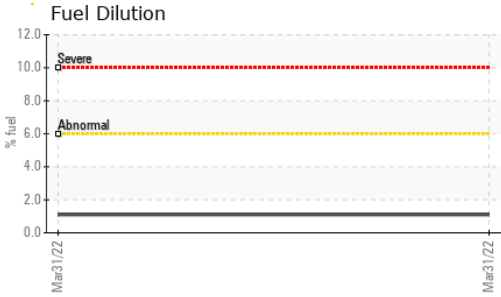
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.1	0.1	---
Nitration	Abs/cm	*ASTM D7624 >20	9.0	9.5	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	23.0	23.1	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	17.9	21.9	---
Base Number (BN)	mg KOH/g	ASTM D2896	7.4	9.4	---



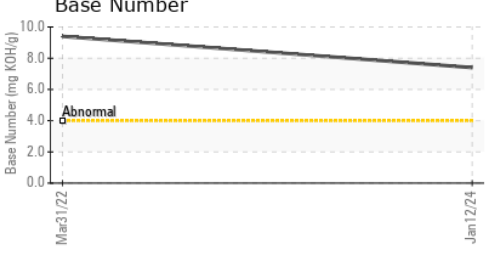
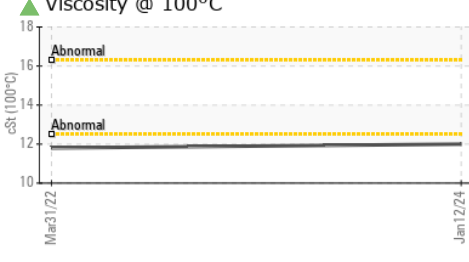
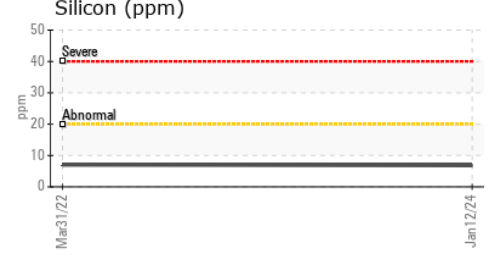
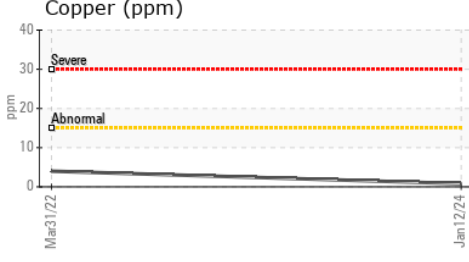
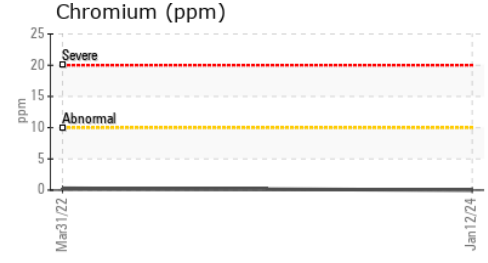
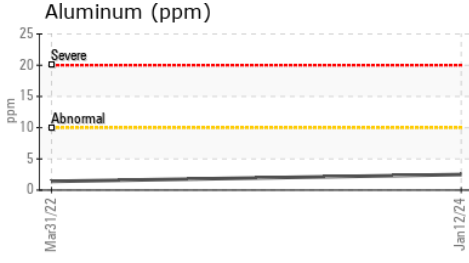
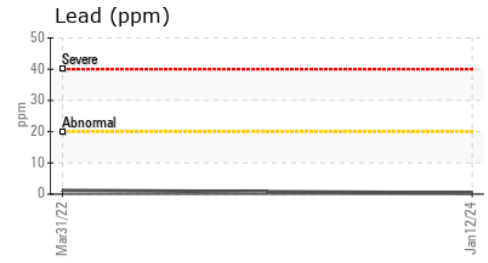
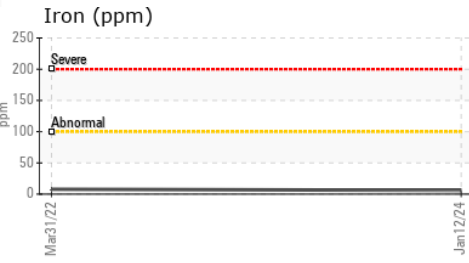
OIL ANALYSIS REPORT



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	>0.1	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	▲ 12.0	▲ 11.8	---

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0886266 **Recieved** : 17 Jan 2024
Lab Number : 06062339 **Diagnosed** : 18 Jan 2024
Unique Number : 10833721 **Diagnostician** : Sean Felton
Test Package : MOBCE (Additional Tests: FuelDilution, TBN)

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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)