



VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[833203]
Machine Id
VOLVO EC350EL 310855
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP349049	VCP337225	VCP271771
Sample Date		Client Info		24 Feb 2022	02 Sep 2021	12 Jun 2020
Machine Age	hrs	Client Info		5145	2030	1055
Oil Age	hrs	Client Info		0	500	500
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Chngd	Changed	Changed
Filter Changed		Client Info		Not Chngd	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	4	7	5
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	<1
Titanium	ppm	ASTM D5185m		<1	6	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	<1	1	<1
Lead	ppm	ASTM D5185m	>20	1	<1	<1
Copper	ppm	ASTM D5185m	>15	1	9	▲ 249
Tin	ppm	ASTM D5185m	>10	<1	<1	1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

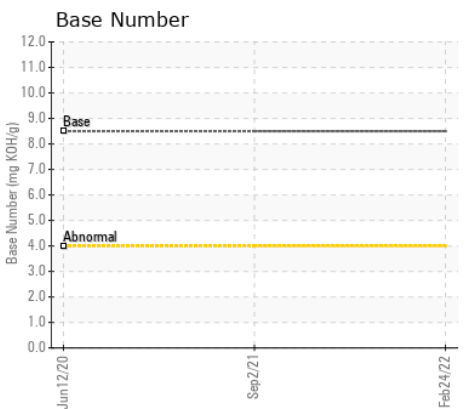
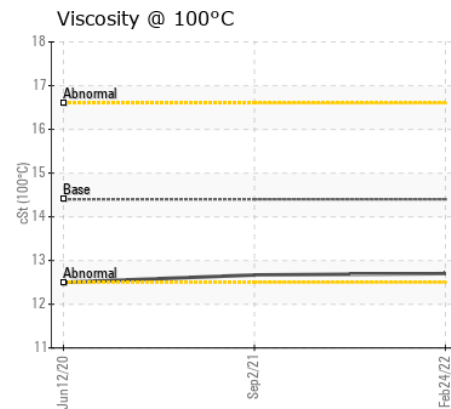
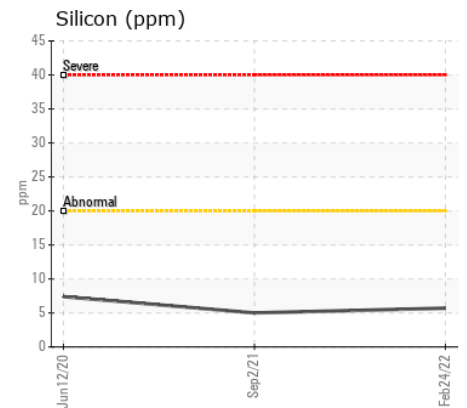
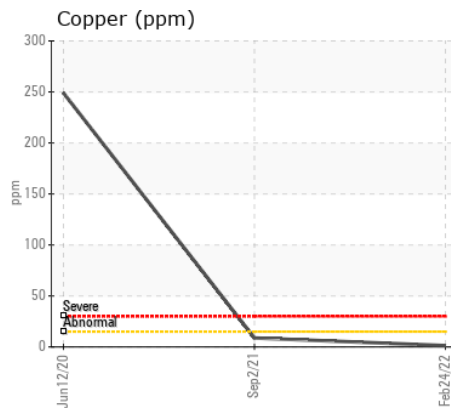
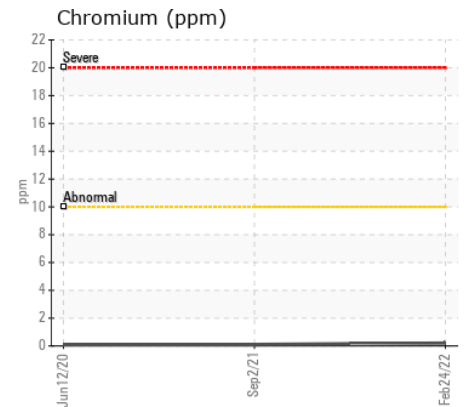
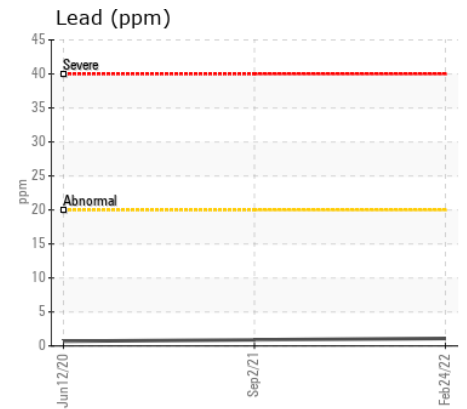
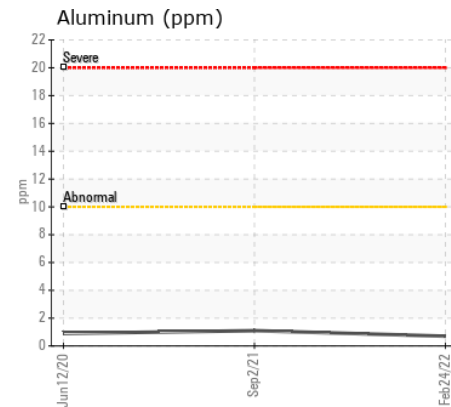
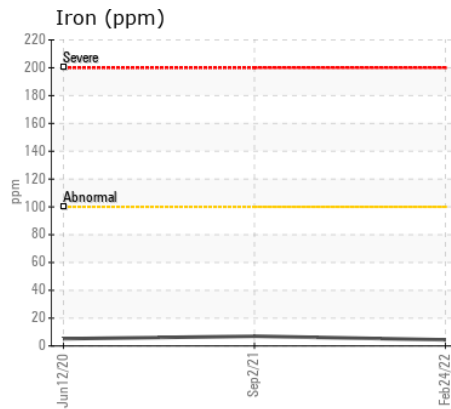
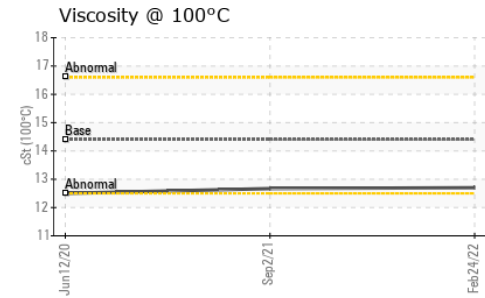
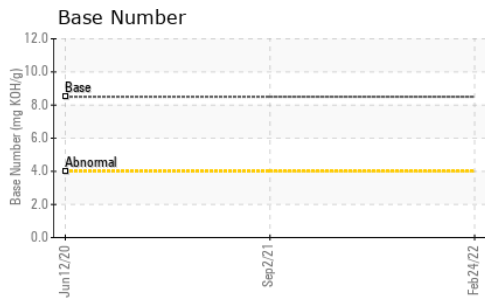
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	6	5	7
Potassium	ppm	ASTM D5185m	>20	0	0	3
Fuel		WC Method	>6.0	<1.0	0.5	<1.0
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	7.4	8.5	9.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.1	22.5	21.4
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	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	>216	2	2	3
Boron	ppm	ASTM D5185m	250	62	51	38
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	26	37	9
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	450	595	453	635
Calcium	ppm	ASTM D5185m	3000	1584	1612	1485
Phosphorus	ppm	ASTM D5185m	1150	905	913	752
Zinc	ppm	ASTM D5185m	1350	971	1103	833
Sulfur	ppm	ASTM D5185m	4250	2638	2520	2239
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.4	20.5	16.5
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	11.0	---	---
Visc @ 100°C	cSt	ASTM D445	14.4	12.7	12.67	12.5



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP349049 **Received** : 01 Mar 2022
Lab Number : 05479893 **Tested** : 02 Mar 2022
Unique Number : 9869107 **Diagnosed** : 02 Mar 2022 - Wes Davis
Test Package : MOB 1 (Additional Tests: TBN)

ALTA EQUIPMENT COMPANY
 8750 PHILIPS HWY
 JACKSONVILLE, FL
 US 32256

Contact: SHAWN NORTHCRAFT
 shawn.northcraft@altg.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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