



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[SCM]

Machine Id

VOLVO EC350EL 314072

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		ASC0011161	ASC0006494	---
Sample Date		Client Info		30 Jun 2024	15 Dec 2023	---
Machine Age	hrs	Client Info		5226	3991	---
Oil Age	hrs	Client Info		500	3991	---
Filter Age	hrs	Client Info		500	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	10	5	---
Chromium	ppm	ASTM D5185m	>10	<1	0	---
Nickel	ppm	ASTM D5185m	>10	<1	0	---
Titanium	ppm	ASTM D5185m		<1	0	---
Silver	ppm	ASTM D5185m	>2	<1	0	---
Aluminum	ppm	ASTM D5185m	>10	4	2	---
Lead	ppm	ASTM D5185m	>20	1	1	---
Copper	ppm	ASTM D5185m	>15	2	2	---
Tin	ppm	ASTM D5185m	>10	<1	0	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

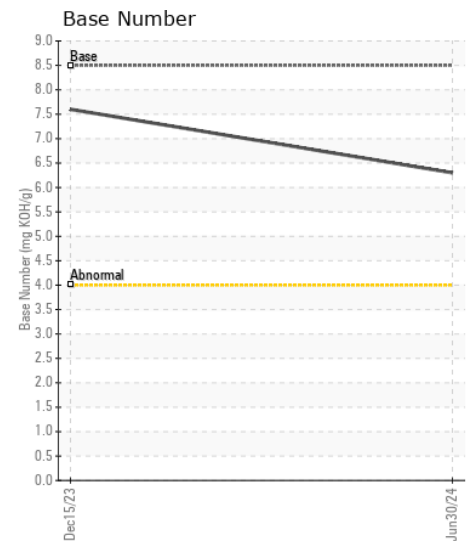
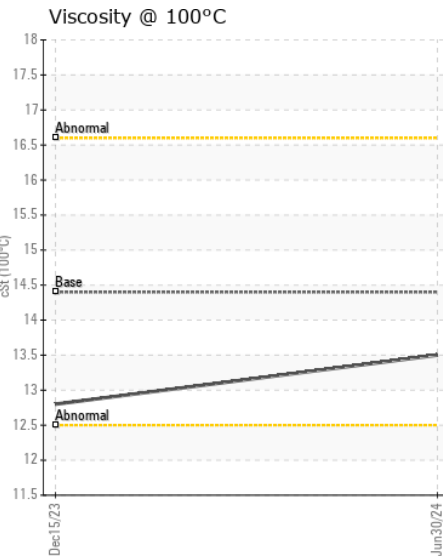
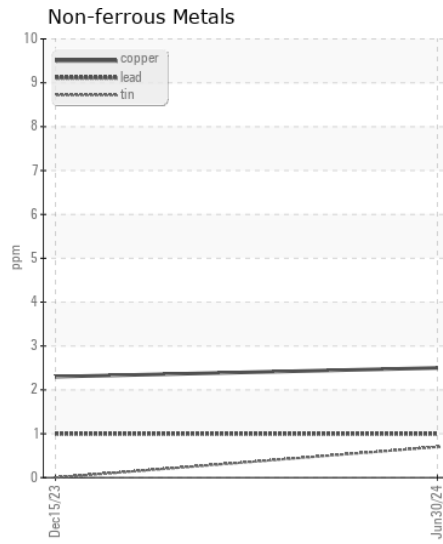
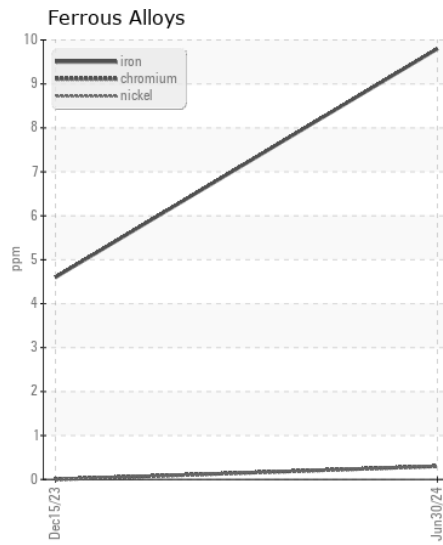
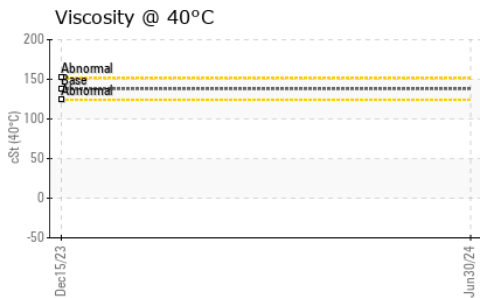
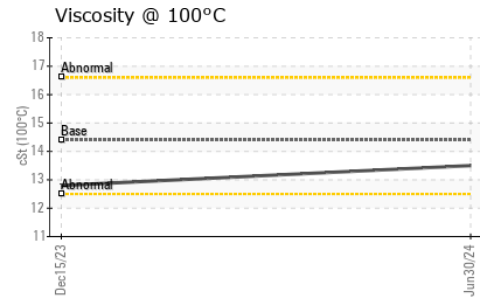
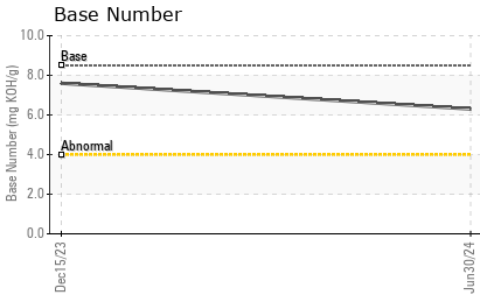
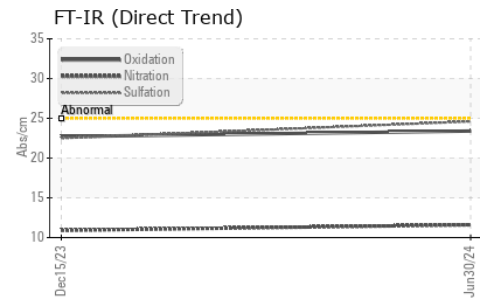
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	9	6	---
Potassium	ppm	ASTM D5185m	>20	4	<1	---
Fuel		WC Method	>6.0	<1.0	<1.0	---
Water		WC Method	>0.1	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.1	0.1	---
Nitration	Abs/cm	*ASTM D7624	>20	11.6	10.9	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.6	22.5	---
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 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	1	2	---
Boron	ppm	ASTM D5185m	250	25	26	---
Barium	ppm	ASTM D5185m	10	<1	0	---
Molybdenum	ppm	ASTM D5185m	100	49	45	---
Manganese	ppm	ASTM D5185m		<1	0	---
Magnesium	ppm	ASTM D5185m	450	512	493	---
Calcium	ppm	ASTM D5185m	3000	1717	1676	---
Phosphorus	ppm	ASTM D5185m	1150	1024	901	---
Zinc	ppm	ASTM D5185m	1350	1271	1169	---
Sulfur	ppm	ASTM D5185m	4250	2972	2838	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	23.4	22.7	---
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	6.3	7.6	---
Visc @ 100°C	cSt	ASTM D445	14.4	13.5	12.8	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : ASC0011161

Lab Number : 06226003

Unique Number : 11109496

Test Package : CONST (Additional Tests: TBN, KV40)

Received : 02 Jul 2024

Tested : 05 Jul 2024

Diagnosed : 05 Jul 2024 - Jonathan Hester

113 - ASCENDUM MACHINERY INC - GARNER

3561 JONES SAUSAGE ROAD

GARNER, NC

US 27529

Contact: TRENT BROADWELL

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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)