



VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
VOLVO ECR235E 314041

Component
Diesel Engine

Fluid
VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP0007799	VCP332970	---
Sample Date		Client Info		15 Apr 2024	02 May 2022	---
Machine Age	hrs	Client Info		1037	1037	---
Oil Age	hrs	Client Info		1037	500	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		N/A	Changed	---
Filter Changed		Client Info		N/A	Changed	---
Sample Status				NORMAL	ABNORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	12	89	---
Chromium	ppm	ASTM D5185m	>10	<1	6	---
Nickel	ppm	ASTM D5185m	>10	0	9	---
Titanium	ppm	ASTM D5185m		<1	14	---
Silver	ppm	ASTM D5185m	>2	0	0	---
Aluminum	ppm	ASTM D5185m	>10	2	▲ 27	---
Lead	ppm	ASTM D5185m	>20	0	5	---
Copper	ppm	ASTM D5185m	>15	0	▲ 33	---
Tin	ppm	ASTM D5185m	>10	<1	5	---
Vanadium	ppm	ASTM D5185m		0	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

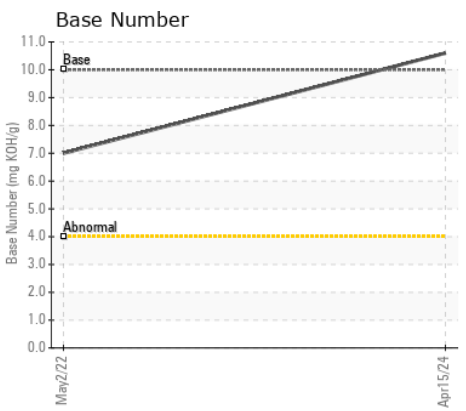
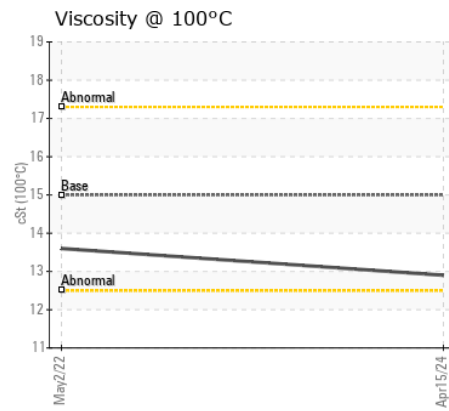
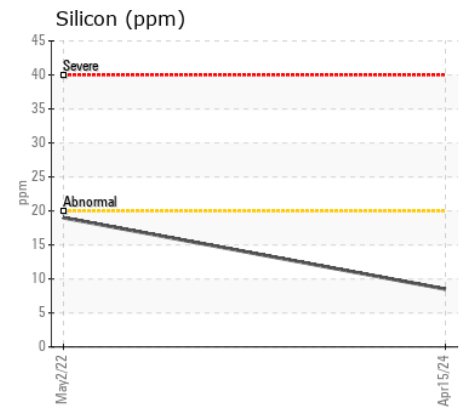
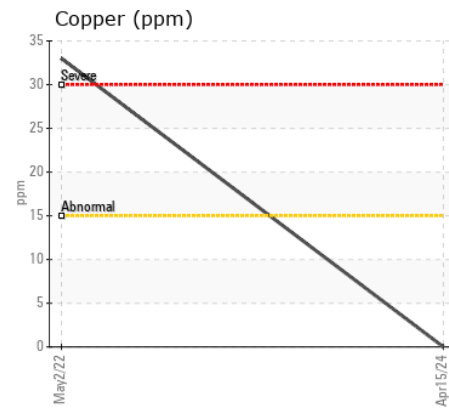
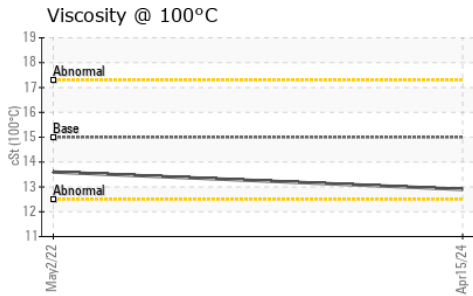
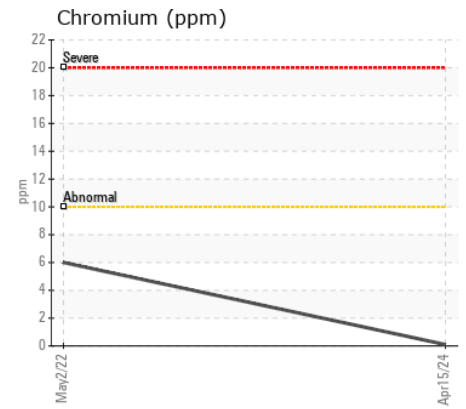
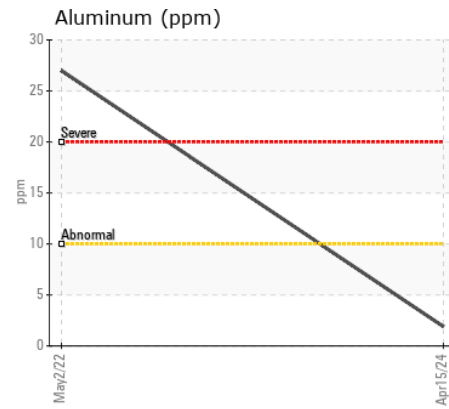
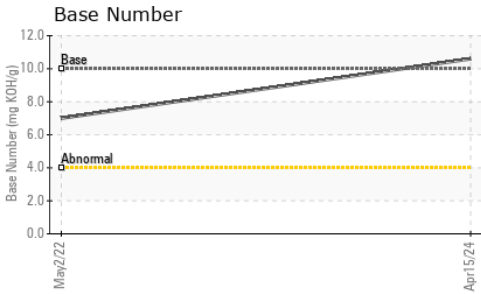
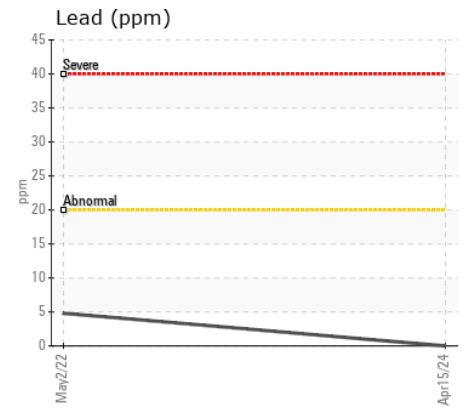
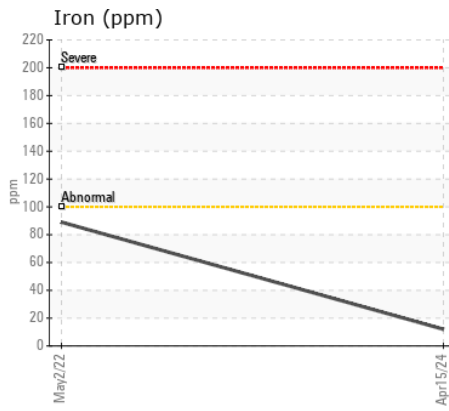
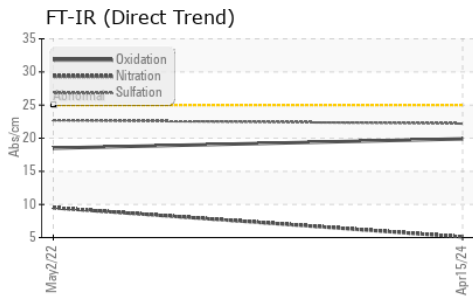
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	8	19	---
Potassium	ppm	ASTM D5185m	>20	0	4	---
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	0.3	---
Nitration	Abs/cm	*ASTM D7624	>20	5.1	9.5	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.2	22.7	---
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		0	4	---
Boron	ppm	ASTM D5185m	2.5	85	9	---
Barium	ppm	ASTM D5185m	0.0	0	0	---
Molybdenum	ppm	ASTM D5185m	0.7	39	4	---
Manganese	ppm	ASTM D5185m	0.0	0	6	---
Magnesium	ppm	ASTM D5185m	256	467	121	---
Calcium	ppm	ASTM D5185m	2057	1700	2582	---
Phosphorus	ppm	ASTM D5185m	935	944	1074	---
Zinc	ppm	ASTM D5185m	1223	1087	1428	---
Sulfur	ppm	ASTM D5185m	4079	3178	3835	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.9	18.5	---
Base Number (BN)	mg KOH/g	ASTM D2896	10	10.6	7.0	---
Visc @ 100°C	cSt	ASTM D445	15.0	12.9	13.6	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP0007799 **Received** : 17 Apr 2024
Lab Number : 06151663 **Tested** : 18 Apr 2024
Unique Number : 10981741 **Diagnosed** : 18 Apr 2024 - Wes Davis
Test Package : MOBCE (Additional Tests: TBN)

ALTA EQUIPMENT COMPANY
 8750 PHILIPS HWY
 JACKSONVILLE, FL
 US 32256
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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)