



ASCENDUM

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
VOLVO A40G 13204723 (S/N 752024)
Component
Diesel Engine
Fluid
VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 (14 GAL)

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		ASC0006916	ASC0006569	---
Sample Date		Client Info		10 Jun 2024	09 Apr 2024	---
Machine Age	hrs	Client Info		2536	2193	---
Oil Age	hrs	Client Info		343	471	---
Filter Age	hrs	Client Info		0	471	---
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	5	11	---
Chromium	ppm	ASTM D5185m	>20	0	<1	---
Nickel	ppm	ASTM D5185m	>2	1	2	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m	>2	0	0	---
Aluminum	ppm	ASTM D5185m	>25	2	2	---
Lead	ppm	ASTM D5185m	>40	0	<1	---
Copper	ppm	ASTM D5185m	>330	9	56	---
Tin	ppm	ASTM D5185m	>15	0	1	---
Vanadium	ppm	ASTM D5185m		<1	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

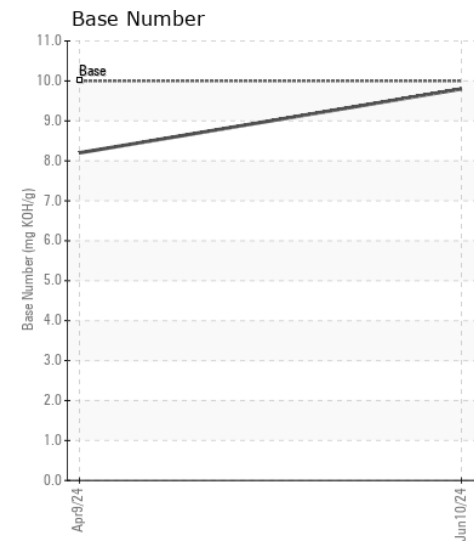
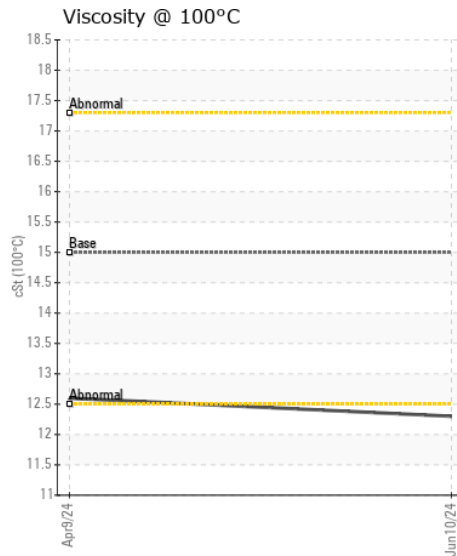
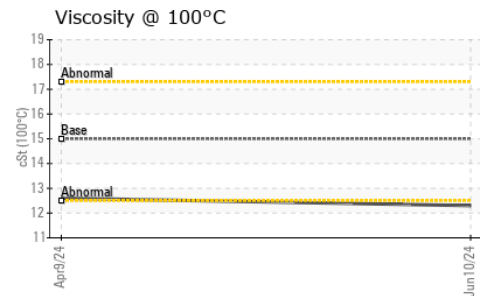
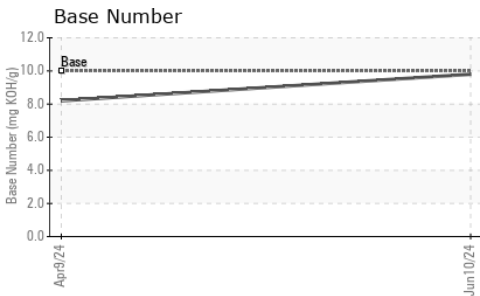
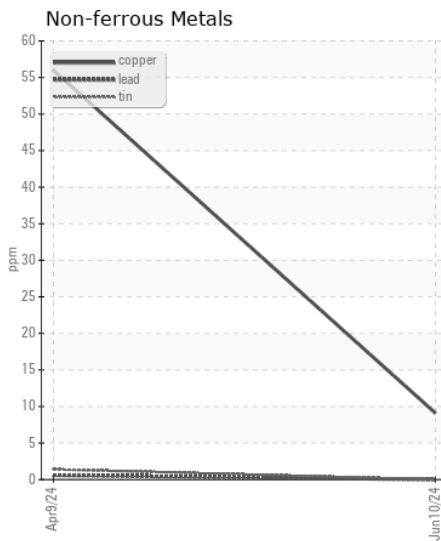
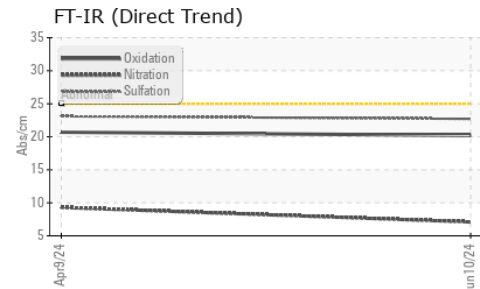
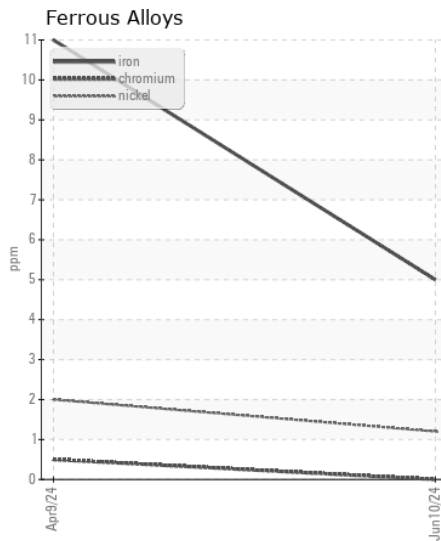
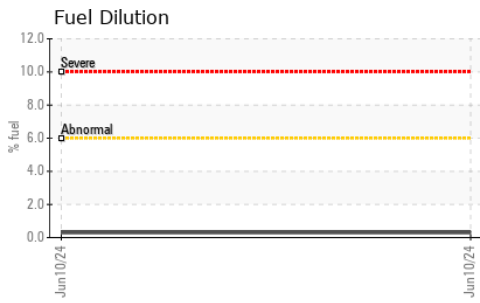
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	6	8	---
Potassium	ppm	ASTM D5185m	>20	4	2	---
Fuel	%	ASTM D3524	>6.0	0.3	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.1	0.2	---
Nitration	Abs/cm	*ASTM D7624	>20	7.1	9.3	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.7	23.1	---
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	>0.2	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		4	<1	---
Boron	ppm	ASTM D5185m	2.5	39	24	---
Barium	ppm	ASTM D5185m	0.0	0	1	---
Molybdenum	ppm	ASTM D5185m	0.7	41	46	---
Manganese	ppm	ASTM D5185m	0.0	1	1	---
Magnesium	ppm	ASTM D5185m	256	561	601	---
Calcium	ppm	ASTM D5185m	2057	1826	1662	---
Phosphorus	ppm	ASTM D5185m	935	1019	1032	---
Zinc	ppm	ASTM D5185m	1223	1233	1181	---
Sulfur	ppm	ASTM D5185m	4079	3636	3139	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.2	20.7	---
Base Number (BN)	mg KOH/g	ASTM D2896	10	9.8	8.2	---
Visc @ 100°C	cSt	ASTM D445	15.0	12.3	12.6	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ASC0006916 **Received** : 27 Jun 2024
Lab Number : 06222959 **Tested** : 02 Jul 2024
Unique Number : 11101156 **Diagnosed** : 02 Jul 2024 - Wes Davis
Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN)

364 - ASCENDUM MACHINERY INC - MACON
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 US 31206
 Contact: HALIE BAKER
 halie.baker@ascendummachinery.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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