



# ASCENDUM

## OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area  
**Ascendum Machinery/500 Hour CSA**  
Machine Id  
**VOLVO A40G 2305 (S/N 353314)**  
Component  
**Diesel Engine**  
Fluid  
**DIESEL ENGINE OIL SAE 30 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ASC0007457	VCP0005781	---
Sample Date		Client Info		08 Feb 2024	25 May 2023	---
Machine Age	hrs	Client Info		1472	503	---
Oil Age	hrs	Client Info		500	503	---
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	9	15	---
Chromium	ppm	ASTM D5185m	>20	0	0	---
Nickel	ppm	ASTM D5185m	>2	2	0	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m	>2	0	0	---
Aluminum	ppm	ASTM D5185m	>25	1	5	---
Lead	ppm	ASTM D5185m	>40	0	<1	---
Copper	ppm	ASTM D5185m	>330	20	67	---
Tin	ppm	ASTM D5185m	>15	<1	1	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

### CONTAMINATION

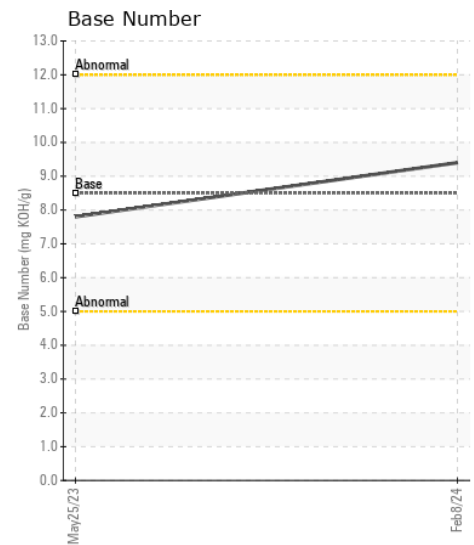
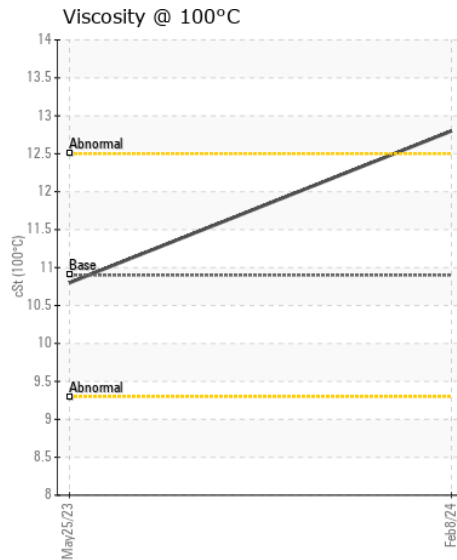
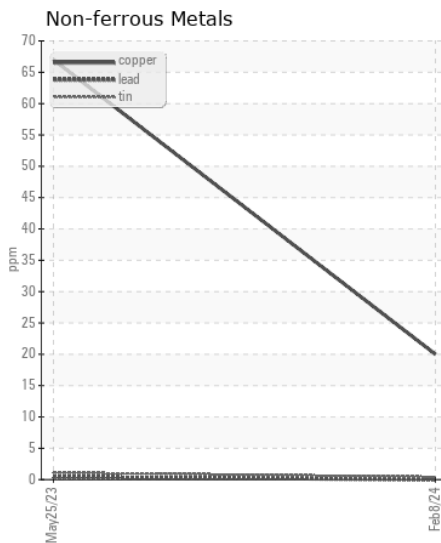
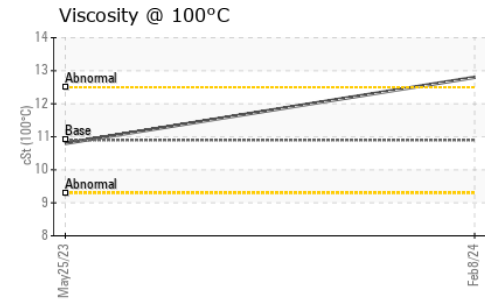
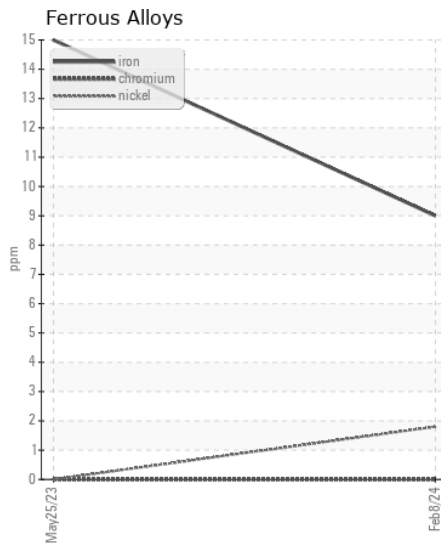
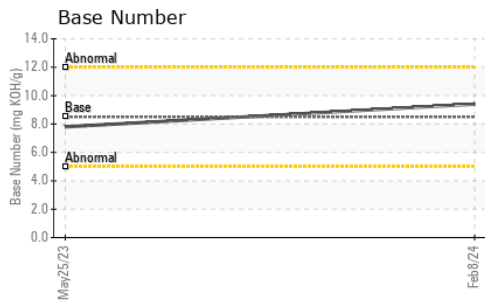
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	8	25	---
Potassium	ppm	ASTM D5185m	>20	0	2	---
Fuel		WC Method	>6.0	<1.0	0.5	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.2	0.2	---
Nitration	Abs/cm	*ASTM D7624	>20	7.6	8.2	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.0	19.9	---
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 acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>75	2	2	---
Boron	ppm	ASTM D5185m	250	46	89	---
Barium	ppm	ASTM D5185m	10	0	0	---
Molybdenum	ppm	ASTM D5185m	100	40	66	---
Manganese	ppm	ASTM D5185m		<1	2	---
Magnesium	ppm	ASTM D5185m	450	498	288	---
Calcium	ppm	ASTM D5185m	3000	1754	1867	---
Phosphorus	ppm	ASTM D5185m	1150	972	1017	---
Zinc	ppm	ASTM D5185m	1350	1107	1227	---
Sulfur	ppm	ASTM D5185m	4250	3039	4247	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.8	14.9	---
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	9.4	7.8	---
Visc @ 100°C	cSt	ASTM D445	10.9	12.8	10.8	---



Certificate L2367

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

**Sample No.** : ASC0007457

**Lab Number** : 06101309

**Unique Number** : 10899539

**Test Package** : CONST ( Additional Tests: TBN )

**Received** : 27 Feb 2024

**Tested** : 28 Feb 2024

**Diagnosed** : 28 Feb 2024 - Don Baldrige

**TRIANGLE GRADING AND PAVING INC**

1521 Huffman Mill Rd

BURLINGTON, NC

US 27216

Contact: KAREN HILLIARD

khilliard@trianglegradingpaving.com

T: (336)584-1745

F: (336)584-0145

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)