



ASCENDUM

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
VOLVO A40G 341239
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		ASC0011182	ASC0006139	VCP421400
Sample Date		Client Info		18 Jun 2024	06 Dec 2023	23 Aug 2023
Machine Age	hrs	Client Info		14163	13842	13390
Oil Age	hrs	Client Info		500	442	0
Filter Age	hrs	Client Info		500	442	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	11	14	21
Chromium	ppm	ASTM D5185m	>20	<1	<1	1
Nickel	ppm	ASTM D5185m	>10	2	0	1
Titanium	ppm	ASTM D5185m		3	24	<1
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>30	4	5	10
Lead	ppm	ASTM D5185m	>40	1	3	7
Copper	ppm	ASTM D5185m	>20	1	2	4
Tin	ppm	ASTM D5185m	>20	<1	0	1
Vanadium	ppm	ASTM D5185m		<1	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

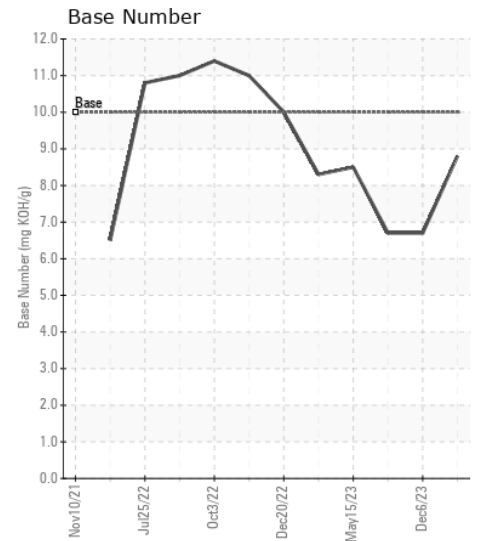
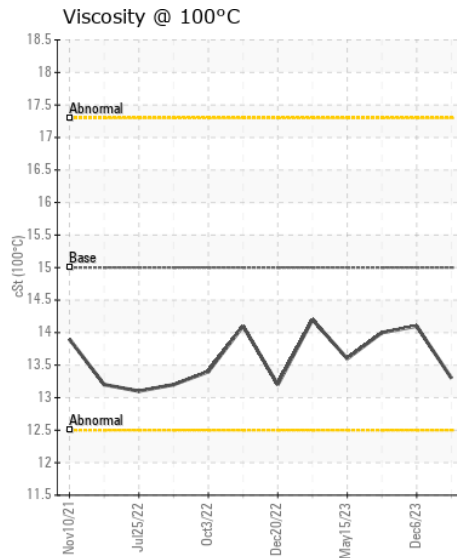
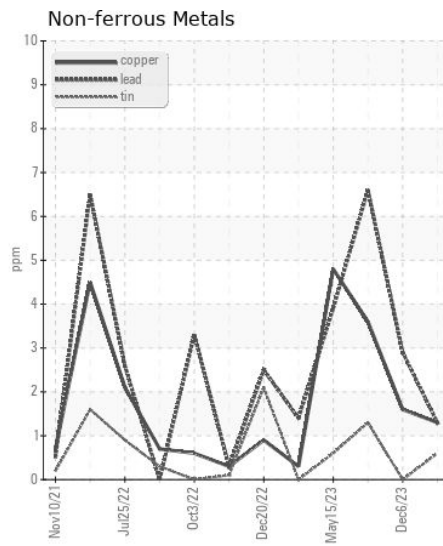
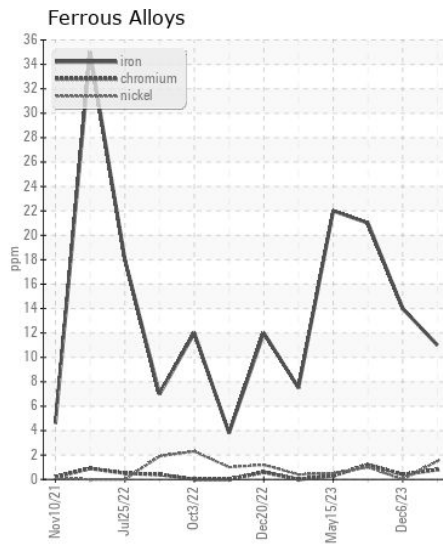
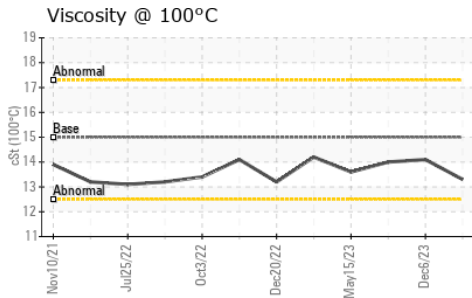
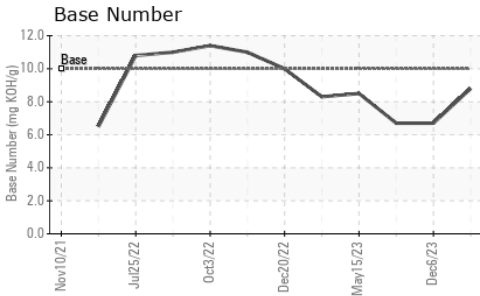
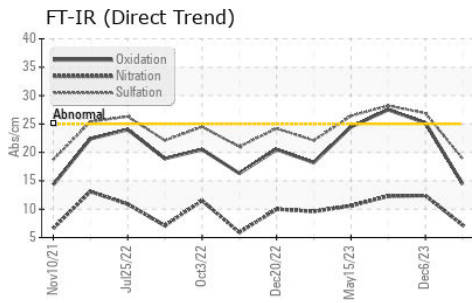
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	5	6	12
Potassium	ppm	ASTM D5185m	>20	2	<1	5
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.3	0.3	0.5
Nitration	Abs/cm	*ASTM D7624	>20	7.2	12.4	12.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.9	26.9	28.2
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	>0.2	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		22	12	27
Boron	ppm	ASTM D5185m	2.5	8	48	38
Barium	ppm	ASTM D5185m	0.0	1	0	0
Molybdenum	ppm	ASTM D5185m	0.7	61	46	53
Manganese	ppm	ASTM D5185m	0.0	<1	<1	1
Magnesium	ppm	ASTM D5185m	256	901	864	708
Calcium	ppm	ASTM D5185m	2057	1160	1628	1783
Phosphorus	ppm	ASTM D5185m	935	1142	1129	1017
Zinc	ppm	ASTM D5185m	1223	1267	1353	1324
Sulfur	ppm	ASTM D5185m	4079	3419	3618	3674
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.4	25.2	27.5
Base Number (BN)	mg KOH/g	ASTM D2896	10	8.8	6.7	6.7
Visc @ 100°C	cSt	ASTM D445	15.0	13.3	14.1	14.0



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ASC0011182 **Received** : 25 Jun 2024
Lab Number : 06219269 **Tested** : 25 Jun 2024
Unique Number : 11097466 **Diagnosed** : 26 Jun 2024 - Don Baldrige
Test Package : CONST (Additional Tests: TBN)

HANSON SOUTHEAST
 NC HWY 117
 ERWIN, NC
 US 28339
 Contact: Service Manager

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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F: