



ASCENDUM

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
VOLVO A45G 13411 (S/N 752029)
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 30 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 30. Please confirm.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ASC0008687	VCP430737	---
Sample Date		Client Info		24 Feb 2024	08 Dec 2023	---
Machine Age	hrs	Client Info		1328	469	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	ABNORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	29	21	---
Chromium	ppm	ASTM D5185m	>20	1	<1	---
Nickel	ppm	ASTM D5185m	>2	3	2	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m	>2	0	0	---
Aluminum	ppm	ASTM D5185m	>25	3	2	---
Lead	ppm	ASTM D5185m	>40	1	6	---
Copper	ppm	ASTM D5185m	>330	184	▲ 454	---
Tin	ppm	ASTM D5185m	>15	3	4	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

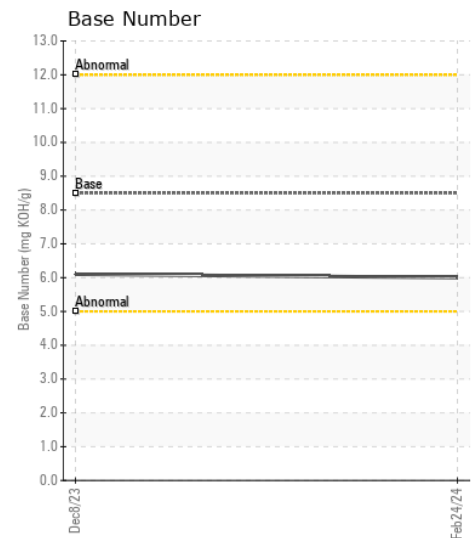
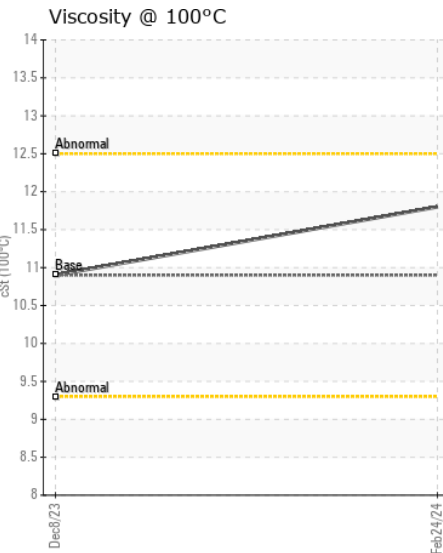
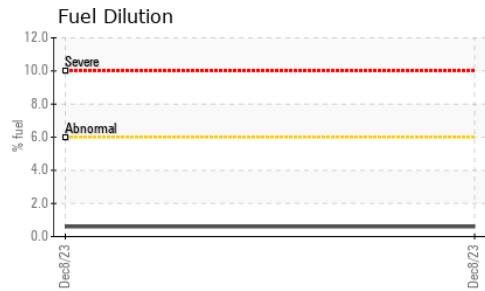
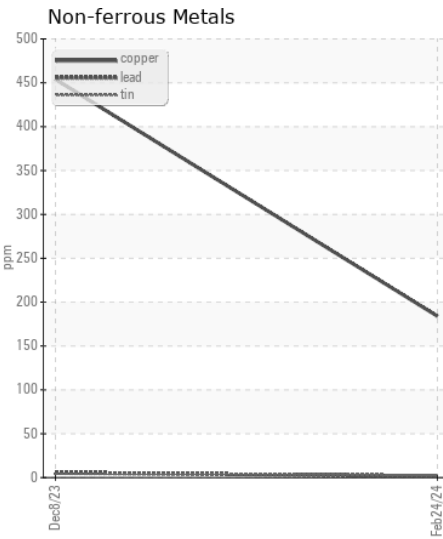
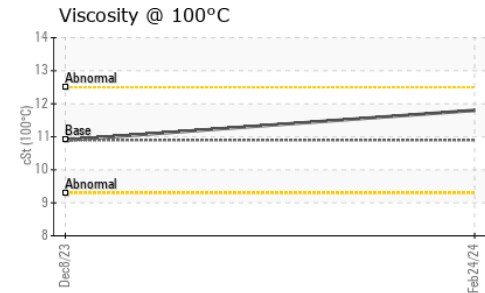
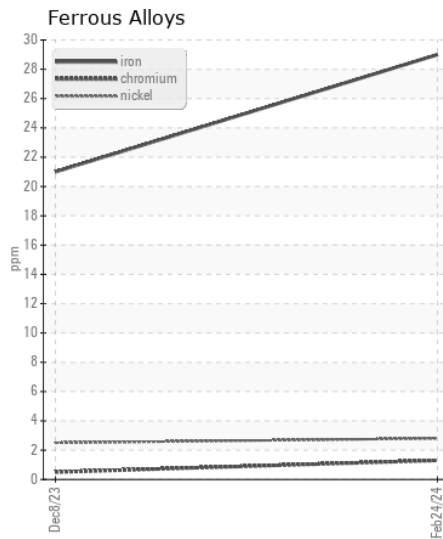
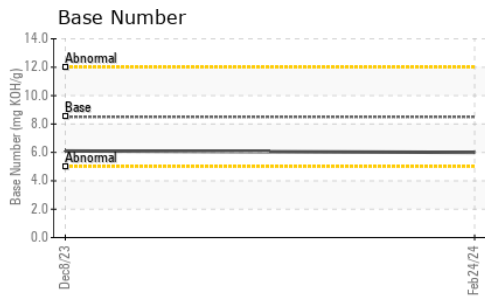
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	10	28	---
Potassium	ppm	ASTM D5185m	>20	<1	<1	---
Fuel	%	ASTM D3524	>6.0	<1.0	0.6	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.6	0.3	---
Nitration	Abs/cm	*ASTM D7624	>20	8.4	9.5	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.0	18.3	---
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	>75	2	3	---
Boron	ppm	ASTM D5185m	250	4	42	---
Barium	ppm	ASTM D5185m	10	0	0	---
Molybdenum	ppm	ASTM D5185m	100	66	82	---
Manganese	ppm	ASTM D5185m		<1	2	---
Magnesium	ppm	ASTM D5185m	450	829	31	---
Calcium	ppm	ASTM D5185m	3000	1257	2450	---
Phosphorus	ppm	ASTM D5185m	1150	923	1104	---
Zinc	ppm	ASTM D5185m	1350	1149	1220	---
Sulfur	ppm	ASTM D5185m	4250	2532	4216	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.2	14.0	---
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	6.0	6.1	---
Visc @ 100°C	cSt	ASTM D445	10.9	11.8	10.9	---



Certificate L2367

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

Sample No. : ASC0008687

Lab Number : 06121407

Unique Number : 10930240

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

Received : 18 Mar 2024

Tested : 19 Mar 2024

Diagnosed : 19 Mar 2024 - Wes Davis

117 - ASCENDUM MACHINERY INC - GREENVILLE

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GREENVILLE, NC

US 27834

Contact: ALLEN WILLIAMS

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T:

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)

F: (704)494-8197