



ASCENDUM

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION



Machine Id
VOLVO A45G 13418 (S/N 752224)
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 15W40 (--- 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		ASC0008823	ASC0008508	---
Sample Date		Client Info		03 Apr 2024	23 Feb 2024	---
Machine Age	hrs	Client Info		1399	750	---
Oil Age	hrs	Client Info		649	750	---
Filter Age	hrs	Client Info		0	750	---
Oil Changed		Client Info		N/A	Changed	---
Filter Changed		Client Info		N/A	Changed	---
Sample Status				ATTENTION	ATTENTION	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	27	30	---
Chromium	ppm	ASTM D5185m	>20	2	1	---
Nickel	ppm	ASTM D5185m	>2	4	3	---
Titanium	ppm	ASTM D5185m		<1	0	---
Silver	ppm	ASTM D5185m	>2	<1	0	---
Aluminum	ppm	ASTM D5185m	>25	3	4	---
Lead	ppm	ASTM D5185m	>40	2	1	---
Copper	ppm	ASTM D5185m	>330	203	309	---
Tin	ppm	ASTM D5185m	>15	4	6	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

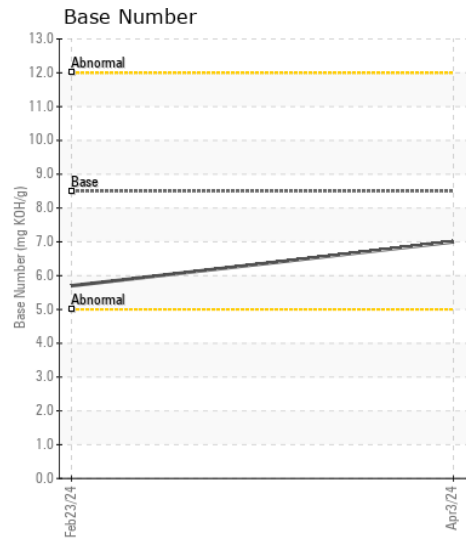
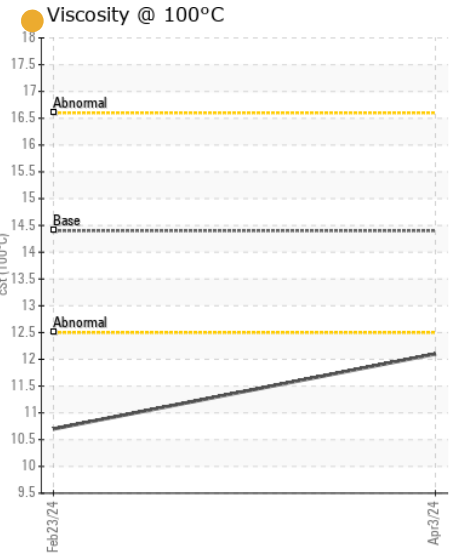
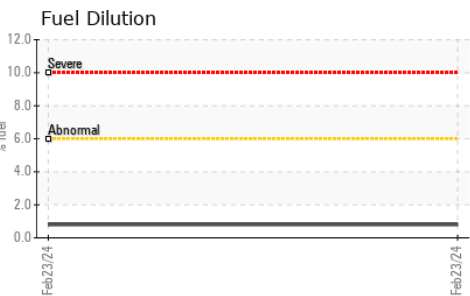
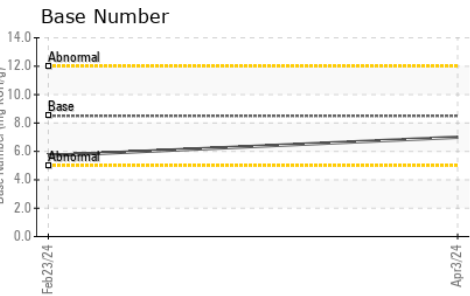
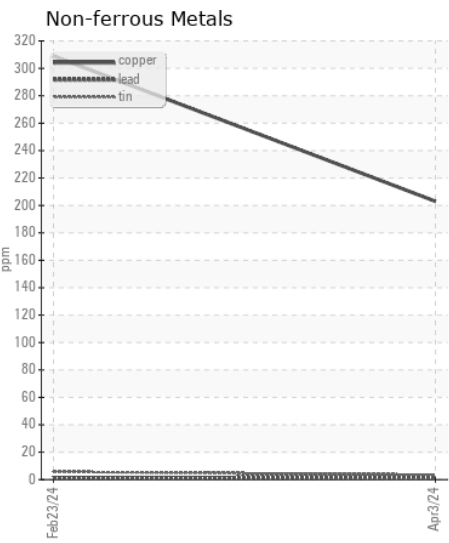
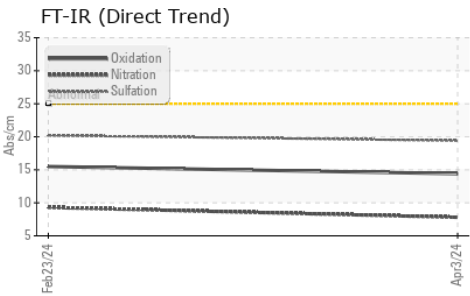
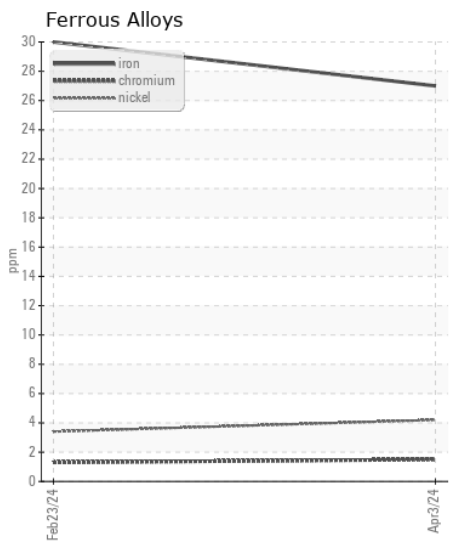
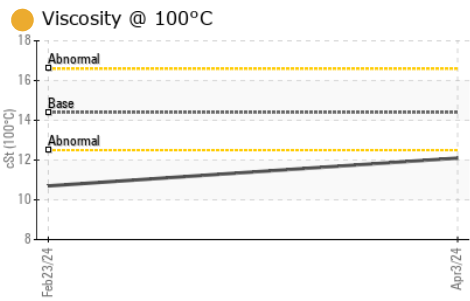
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	11	27	---
Potassium	ppm	ASTM D5185m	>20	3	2	---
Fuel	%	ASTM D3524	>6.0	<1.0	0.8	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.5	0.5	---
Nitration	Abs/cm	*ASTM D7624	>20	7.8	9.3	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.4	20.2	---
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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Sodium	ppm	ASTM D5185m	>158	<1	4	---
Boron	ppm	ASTM D5185m	250	5	30	---
Barium	ppm	ASTM D5185m	10	0	0	---
Molybdenum	ppm	ASTM D5185m	100	98	92	---
Manganese	ppm	ASTM D5185m		1	2	---
Magnesium	ppm	ASTM D5185m	450	1191	33	---
Calcium	ppm	ASTM D5185m	3000	1729	2295	---
Phosphorus	ppm	ASTM D5185m	1150	1320	1016	---
Zinc	ppm	ASTM D5185m	1350	1737	1200	---
Sulfur	ppm	ASTM D5185m	4250	4013	3549	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.4	15.5	---
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.0	5.7	---
Visc @ 100°C	cSt	ASTM D445	14.4	12.1	10.7	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ASC0008823 **Received** : 23 Apr 2024
Lab Number : 06157188 **Tested** : 24 Apr 2024
Unique Number : 10992611 **Diagnosed** : 25 Apr 2024 - Jonathan Hester
Test Package : CONST (Additional Tests: FuelDilution, TBN)

117 - ASCENDUM MACHINERY INC - GREENVILLE
 2002 N GREENE ST
 GREENVILLE, NC
 US 27834
 Contact: ALLEN WILLIAMS
 allen.williams@ascendummachinery.com
 T:
 F: (704)494-8197

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)