



ASCENDUM

OIL ANALYSIS REPORT

WEAR

NORMAL

CONTAMINATION

NORMAL

FLUID CONDITION

ATTENTION



Area

Ascendum Machinery/500 Hour CSA

Machine Id

VOLVO A45G 2363 (S/N A45GV752172)

Component

Drop Box

Fluid

GEAR OIL SAE 140 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ASC0009414	ASC0010302	---
Sample Date		Client Info		16 Jul 2024	02 Apr 2024	---
Machine Age	hrs	Client Info		1058	476	---
Oil Age	hrs	Client Info		1058	476	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Not Changd	Not Changd	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				ATTENTION	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	<1	1	---
Chromium	ppm	ASTM D5185m	>20	<1	<1	---
Nickel	ppm	ASTM D5185m	>10	0	<1	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>30	1	1	---
Lead	ppm	ASTM D5185m	>30	0	<1	---
Copper	ppm	ASTM D5185m	>30	1	2	---
Tin	ppm	ASTM D5185m	>20	0	<1	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

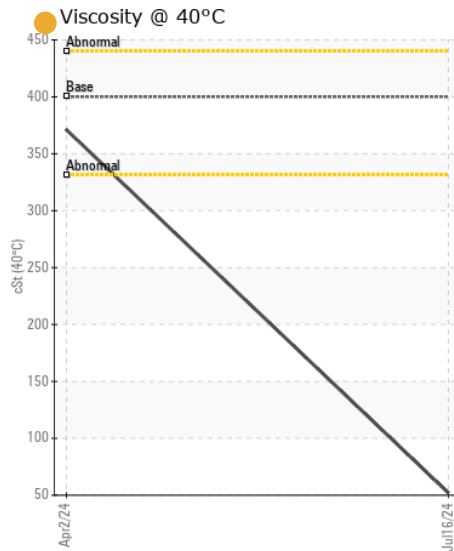
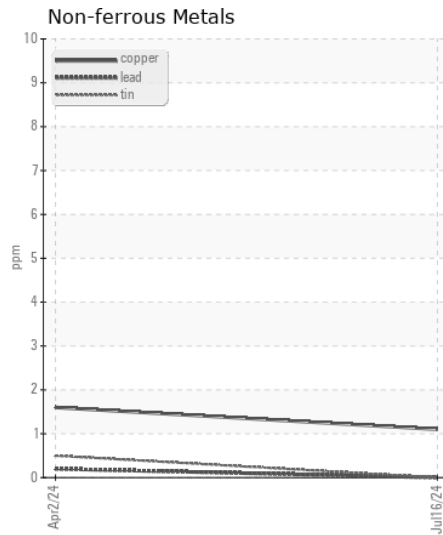
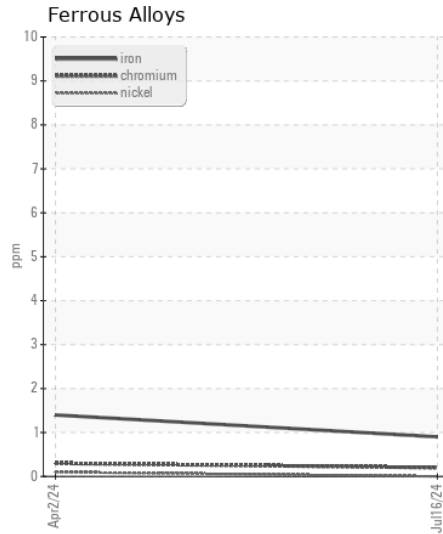
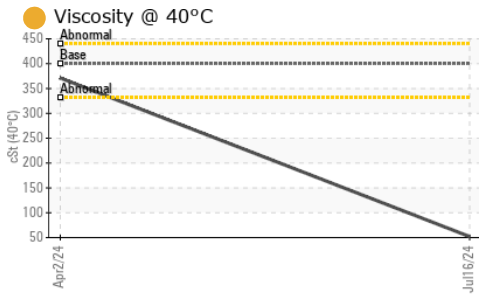
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	1	2	---
Potassium	ppm	ASTM D5185m	>20	<1	2	---
Water		WC Method	>0.2	NEG	NEG	---
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. Confirm oil type.

Sodium	ppm	ASTM D5185m		<1	1	---
Boron	ppm	ASTM D5185m	400	316	201	---
Barium	ppm	ASTM D5185m	200	0	0	---
Molybdenum	ppm	ASTM D5185m	12	0	<1	---
Manganese	ppm	ASTM D5185m		0	<1	---
Magnesium	ppm	ASTM D5185m	12	3	<1	---
Calcium	ppm	ASTM D5185m	150	80	87	---
Phosphorus	ppm	ASTM D5185m	1650	2238	1024	---
Zinc	ppm	ASTM D5185m	125	39	27	---
Sulfur	ppm	ASTM D5185m	22500	24096	31289	---
Visc @ 40°C	cSt	ASTM D445	400	52.0	371	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ASC0009414 **Received** : 18 Jul 2024
Lab Number : 06240706 **Tested** : 19 Jul 2024
Unique Number : 11129540 **Diagnosed** : 20 Jul 2024 - Don Baldrige
Test Package : CONST

G S MATERIALS INC
 PO BOX 1335
 BURLINGTON, NC
 US 27216

Contact: KAREN NEWPORT
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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)