



ASCENDUM

OIL ANALYSIS REPORT

WEAR **NORMAL**

CONTAMINATION **NORMAL**

FLUID CONDITION **NORMAL**



Area

Ascendum Machinery/500 Hour CSA

Machine Id

VOLVO A40G 2331 (S/N A40GV752021)

Component

Bogie/Center Axle

Fluid

{not provided} (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ASC0011346	ASC0008506	VCP430776
Sample Date		Client Info		23 May 2024	29 Feb 2024	13 Sep 2023
Machine Age	hrs	Client Info		1984	1491	513
Oil Age	hrs	Client Info		984	491	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		N/A	N/A	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>900	62	25	141
Chromium	ppm	ASTM D5185m	>20	<1	0	2
Nickel	ppm	ASTM D5185m	>10	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>30	<1	0	<1
Lead	ppm	ASTM D5185m	>50	0	2	0
Copper	ppm	ASTM D5185m	>150	<1	0	<1
Tin	ppm	ASTM D5185m	>20	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

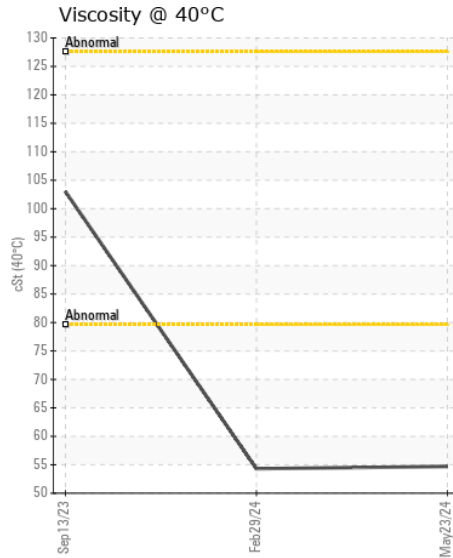
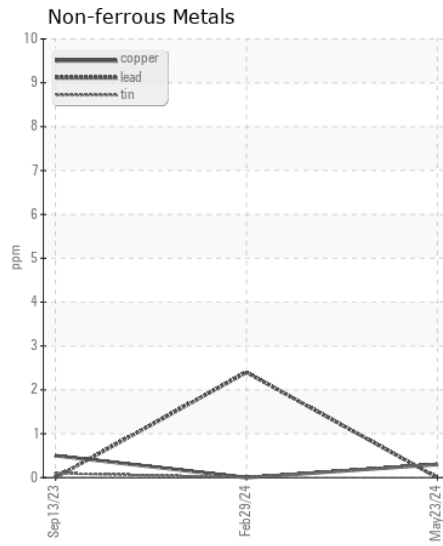
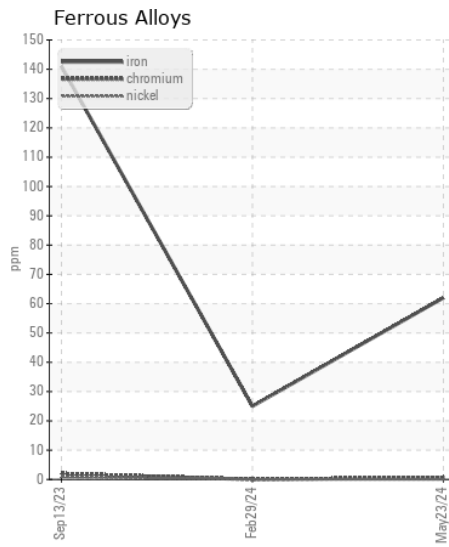
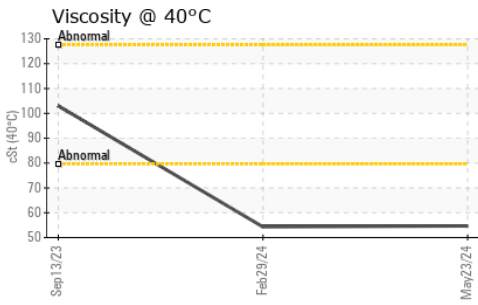
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	7	<1	4
Potassium	ppm	ASTM D5185m	>20	2	0	4
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
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 condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		2	2	1
Boron	ppm	ASTM D5185m		291	282	292
Barium	ppm	ASTM D5185m		0	0	3
Molybdenum	ppm	ASTM D5185m		<1	0	4
Manganese	ppm	ASTM D5185m		<1	<1	9
Magnesium	ppm	ASTM D5185m		<1	<1	3
Calcium	ppm	ASTM D5185m		25	20	200
Phosphorus	ppm	ASTM D5185m		2483	2321	1462
Zinc	ppm	ASTM D5185m		12	0	86
Sulfur	ppm	ASTM D5185m		33383	26214	29135
Visc @ 40°C	cSt	ASTM D445		54.7	54.3	103



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ASC0011346
Lab Number : 06195740
Unique Number : 11057863
Test Package : CONST

Received : 30 May 2024
Tested : 31 May 2024
Diagnosed : 31 May 2024 - Wes Davis

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

Contact: KAREN NEWPORT
 Gsmaterials@windstream.net
 T: (919)499-9322
 F: (919)499-2097

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)