



ASCENDUM

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Machine Id
VOLVO A40G 341147
Component
Bogie/Center Axle
Fluid
VOLVO SUPER GEAR OIL 75W-80-GO102 (--- GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ASC0006146	VCP412012	VCP420395
Sample Date		Client Info		19 Dec 2023	21 Jul 2023	01 Jun 2023
Machine Age	hrs	Client Info		13778	13573	13304
Oil Age	hrs	Client Info		205	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changed	Changed	Not Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	SEVERE	SEVERE

WEAR

The iron level is abnormal. Gear wear is indicated.

Iron	ppm	ASTM D5185m	>900	▲ 952	▲ 1112	▲ 1654
Chromium	ppm	ASTM D5185m	>20	9	11	18
Nickel	ppm	ASTM D5185m	>10	5	7	11
Titanium	ppm	ASTM D5185m		1	2	3
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>30	▲ 19	▲ 28	▲ 40
Lead	ppm	ASTM D5185m	>50	0	0	0
Copper	ppm	ASTM D5185m	>150	13	14	15
Tin	ppm	ASTM D5185m	>20	0	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

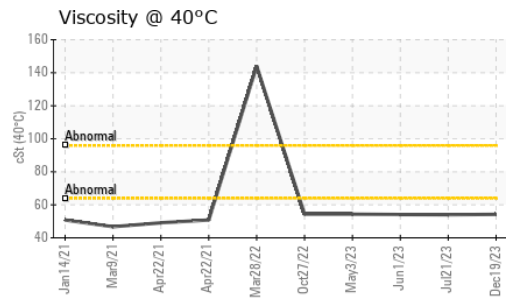
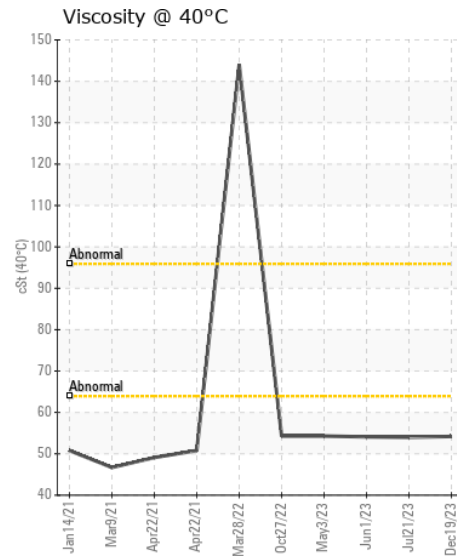
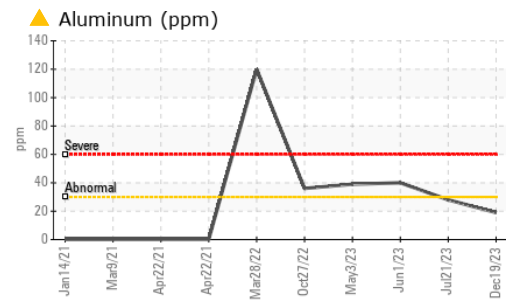
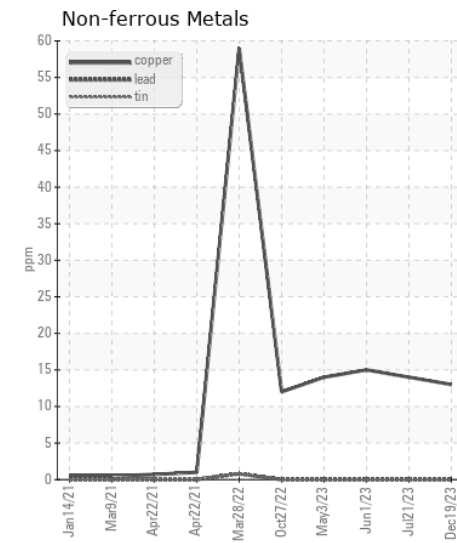
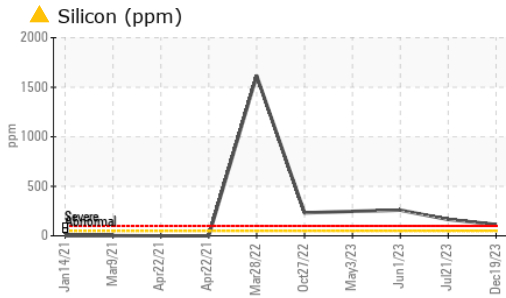
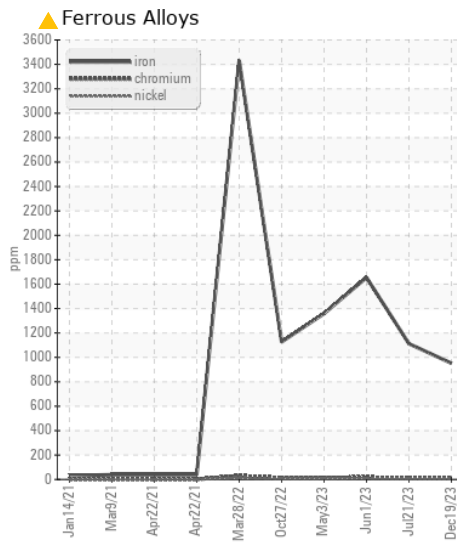
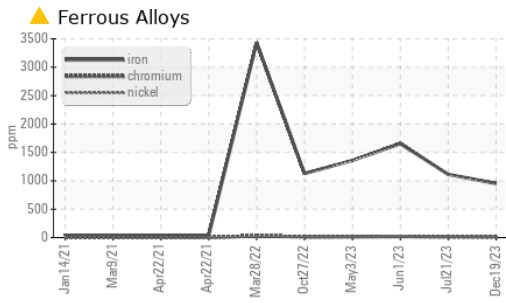
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>50	▲ 114	● 165	● 259
Potassium	ppm	ASTM D5185m	>20	6	6	9
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	MODER	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 condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		4	6	9
Boron	ppm	ASTM D5185m		183	203	219
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	3	4
Manganese	ppm	ASTM D5185m		13	14	18
Magnesium	ppm	ASTM D5185m		4	2	1
Calcium	ppm	ASTM D5185m		46	42	51
Phosphorus	ppm	ASTM D5185m		2399	2518	2458
Zinc	ppm	ASTM D5185m		30	23	36
Sulfur	ppm	ASTM D5185m		27773	33251	25056
Visc @ 40°C	cSt	ASTM D445		54.2	54.0	54.1



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ASC0006146 **Received** : 11 Jan 2024
Lab Number : 06058439 **Diagnosed** : 14 Jan 2024
Unique Number : 10829821 **Diagnostician** : Don Baldrige
Test Package : CONST

Hanson Aggregates - Rocky Mount
 10471 NC 97
 ROCKY MOUNT, NC
 US 27801
 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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