



ASCENDUM

OIL ANALYSIS REPORT

WEAR

NORMAL

CONTAMINATION

SEVERE

FLUID CONDITION

NORMAL



Area

[ACG]

Machine Id

VOLVO A30G 752040

Component

Hydraulic System

Fluid

VOLVO SUPER HYDRAULIC OIL 46 (--- GAL)

RECOMMENDATION

We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation.

WEAR

All component wear rates are normal.

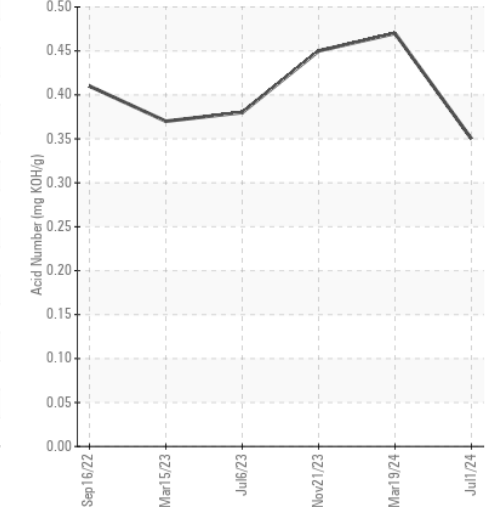
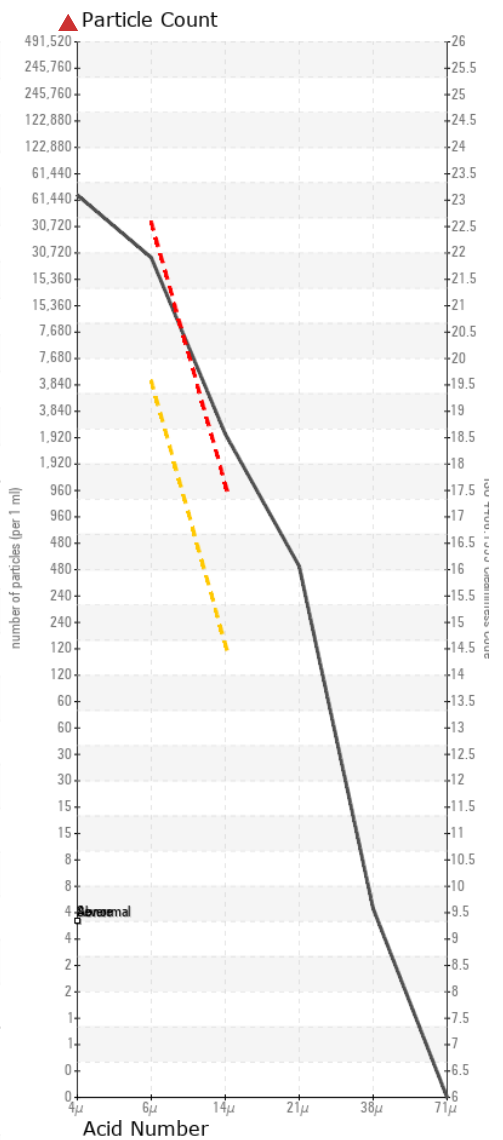
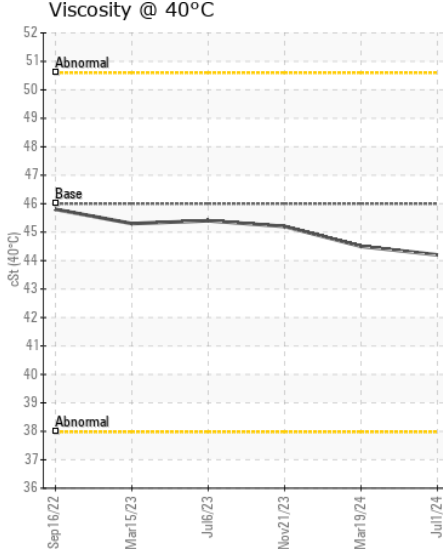
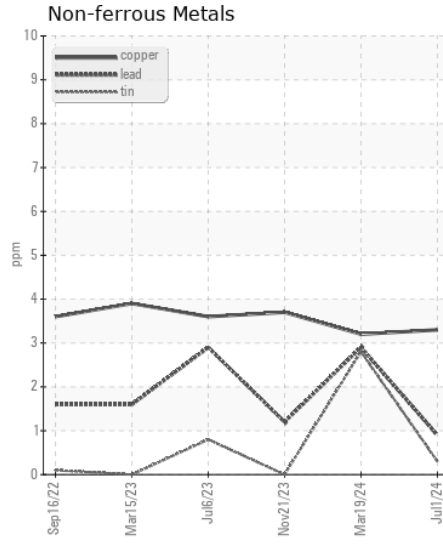
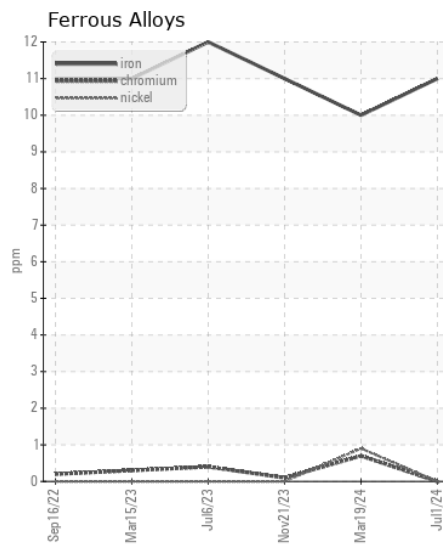
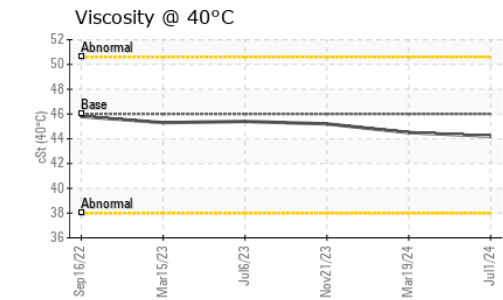
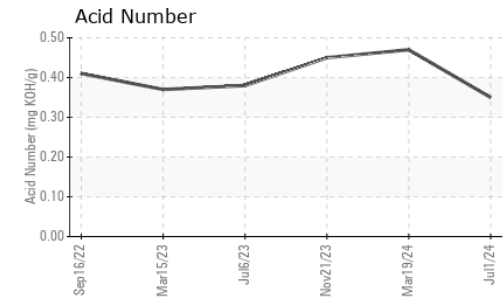
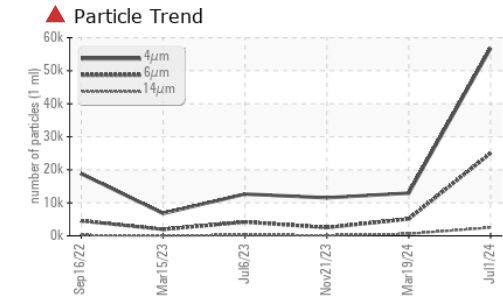
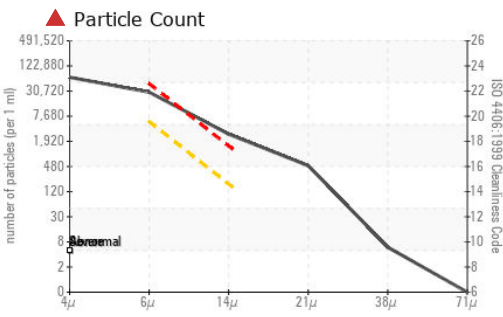
CONTAMINATION

There is a high amount of particulates (2 to 100 microns in size) present in the oil.

FLUID CONDITION

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ASC0009215	ASC0008749	ASC0002503
Sample Date		Client Info		01 Jul 2024	19 Mar 2024	21 Nov 2023
Machine Age	hrs	Client Info		5006	4480	4022
Oil Age	hrs	Client Info		1000	500	4022
Filter Age	hrs	Client Info		1000	500	0
Oil Changed		Client Info		Not Chngd	Not Chngd	Changed
Filter Changed		Client Info		Not Chngd	Not Chngd	Changed
Sample Status				SEVERE	ABNORMAL	NORMAL
Iron	ppm	ASTM D5185m	>50	11	10	11
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	6	5	6
Lead	ppm	ASTM D5185m	>20	<1	3	1
Copper	ppm	ASTM D5185m	>150	3	3	4
Tin	ppm	ASTM D5185m	>20	<1	3	0
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>20	9	7	9
Potassium	ppm	ASTM D5185m	>20	2	<1	0
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647		56805	12936	11517
Particles >6µm		ASTM D7647	>5000	▲ 25023	● 5106	2523
Particles >14µm		ASTM D7647	>160	▲ 2494	▲ 591	132
Particles >21µm		ASTM D7647	>40	▲ 441	▲ 130	35
Particles >38µm		ASTM D7647	>10	5	3	1
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>-/19/14	▲ 23/22/18	▲ 21/20/16	21/19/14
Silt	scalar	*Visual	NONE	NONE	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	>0.1	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m		3	3	2
Boron	ppm	ASTM D5185m	14	0	<1	0
Barium	ppm	ASTM D5185m	0.0	0	0	0
Molybdenum	ppm	ASTM D5185m	0.0	0	<1	0
Manganese	ppm	ASTM D5185m	0.0	0	<1	0
Magnesium	ppm	ASTM D5185m	2.6	3	<1	<1
Calcium	ppm	ASTM D5185m	49	71	66	66
Phosphorus	ppm	ASTM D5185m	354	373	317	336
Zinc	ppm	ASTM D5185m	419	447	412	415
Sulfur	ppm	ASTM D5185m	3719	6052	5599	6746
Acid Number (AN)	mg KOH/g	ASTM D8045		0.35	0.47	0.45
Visc @ 40°C	cSt	ASTM D445	46	44.2	44.5	45.2



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ASC0009215 **Received** : 10 Jul 2024
Lab Number : 06232235 **Tested** : 11 Jul 2024
Unique Number : 11115728 **Diagnosed** : 11 Jul 2024 - Wes Davis
Test Package : CONST

113 - ASCENDUM MACHINERY INC - GARNER
 3561 JONES SAUSAGE ROAD
 GARNER, NC
 US 27529
 Contact: TRENT BROADWELL
 trent.broadwell@ascendummachinery.com
 T: (919)661-8817
 F: (919)661-9038

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)