



# ASCENDUM

## OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area

**Ascendum Machinery**

Machine Id

**VOLVO L90H 626962**

Component

**Hydraulic System**

Fluid

**VOLVO SUPER HYDRAULIC OIL 46 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ASC0008468	ASC0007807	ASC0005091
Sample Date		Client Info		03 Jul 2024	14 Mar 2024	05 Dec 2023
Machine Age	hrs	Client Info		1962	1456	951
Oil Age	hrs	Client Info		1962	1456	951
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changed	Not Changed	Not Changed
Filter Changed		Client Info		Changed	Not Changed	Not Changed
Sample Status				NORMAL	NORMAL	SEVERE

### WEAR

All component wear rates are normal.

Element	UOM	Method	Limit/Abn	Current	History1	History2
Iron	ppm	ASTM D5185m	>50	0	2	2
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
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	>20	0	0	<1
Lead	ppm	ASTM D5185m	>20	0	<1	<1
Copper	ppm	ASTM D5185m	>150	0	3	2
Tin	ppm	ASTM D5185m	>20	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

### CONTAMINATION

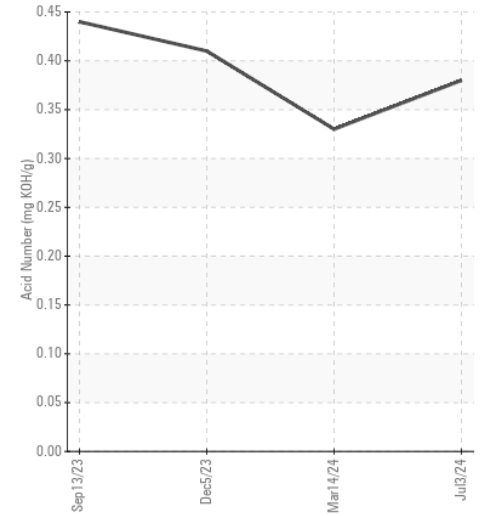
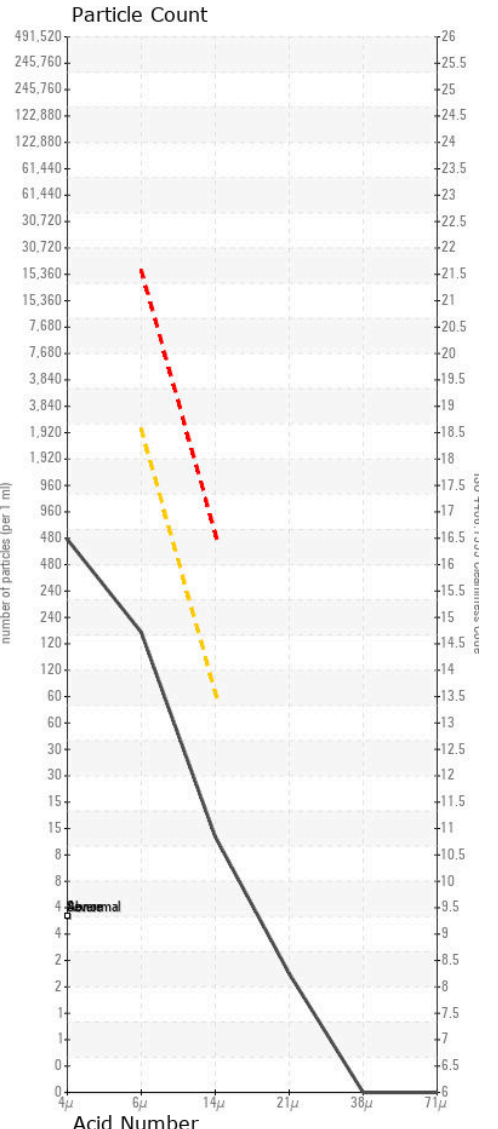
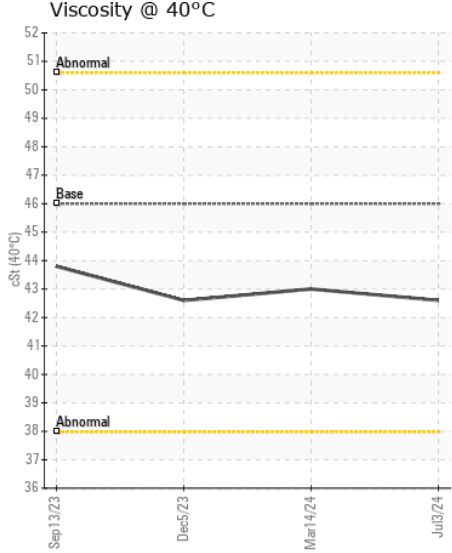
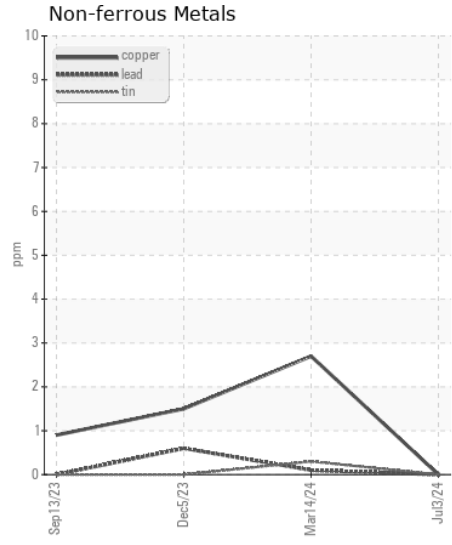
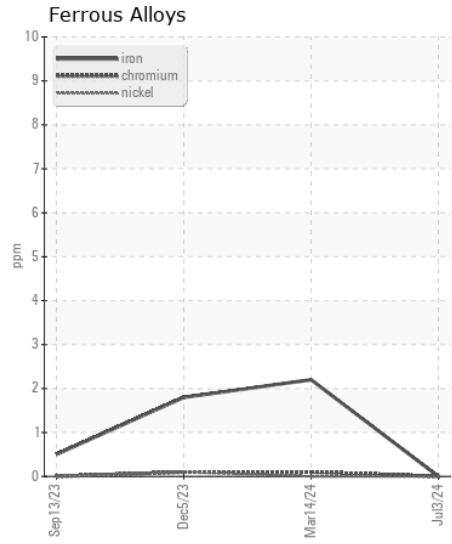
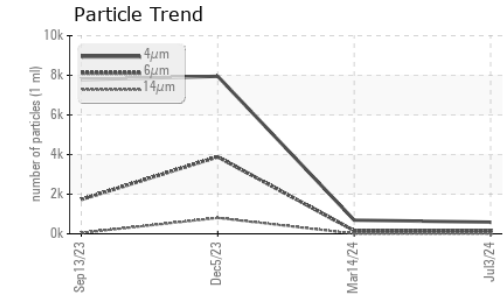
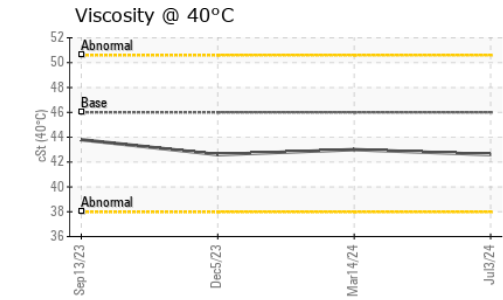
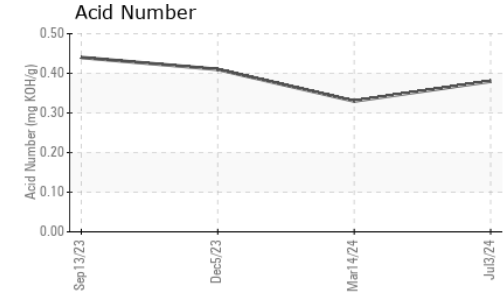
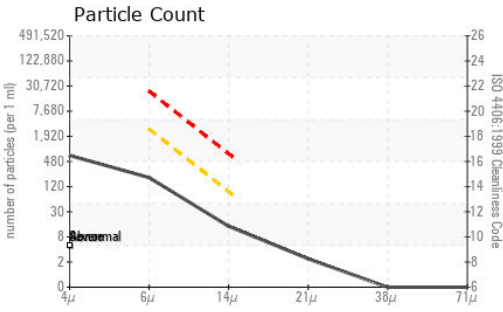
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Element	UOM	Method	Limit/Abn	Current	History1	History2
Silicon	ppm	ASTM D5185m	>20	1	2	2
Potassium	ppm	ASTM D5185m	>20	0	0	<1
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647		587	691	7951
Particles >6µm		ASTM D7647	>2500	174	161	3886
Particles >14µm		ASTM D7647	>80	12	10	803
Particles >21µm		ASTM D7647	>20	2	2	275
Particles >38µm		ASTM D7647	>4	0	0	16
Particles >71µm		ASTM D7647	>3	0	0	1
Oil Cleanliness		ISO 4406 (c)	>-/18/13	16/15/11	17/15/10	20/19/17
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	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

### FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Element	UOM	Method	Limit/Abn	Current	History1	History2
Sodium	ppm	ASTM D5185m		<1	<1	0
Boron	ppm	ASTM D5185m	14	0	0	0
Barium	ppm	ASTM D5185m	0.0	0	0	0
Molybdenum	ppm	ASTM D5185m	0.0	0	1	<1
Manganese	ppm	ASTM D5185m	0.0	0	<1	0
Magnesium	ppm	ASTM D5185m	2.6	6	2	4
Calcium	ppm	ASTM D5185m	49	77	91	70
Phosphorus	ppm	ASTM D5185m	354	384	344	337
Zinc	ppm	ASTM D5185m	419	505	458	430
Sulfur	ppm	ASTM D5185m	3719	2993	2554	2260
Acid Number (AN)	mg KOH/g	ASTM D8045		0.38	0.33	0.41
Visc @ 40°C	cSt	ASTM D445	46	42.6	43.0	42.6



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ASC0008468  
**Lab Number** : 06233222  
**Unique Number** : 11116715  
**Test Package** : CONST  
**Received** : 11 Jul 2024  
**Tested** : 12 Jul 2024  
**Diagnosed** : 12 Jul 2024 - Wes Davis

**IAA - INSURANCE AUTO AUCTIONS - OAK BROOK**  
 701 HARGER RD, SUITE 201  
 OAK BROOK, IL  
 US 60523  
 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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