



ASCENDUM

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area

Ascendum Machinery

Machine Id

VOLVO L150H 6871

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		ASC0007335	ASC0000341	VCP0000329
Sample Date		Client Info		17 Apr 2024	20 Jul 2023	31 Jan 2022
Machine Age	hrs	Client Info		9485	8018	5007
Oil Age	hrs	Client Info		1467	5069	966
Filter Age	hrs	Client Info		0	5069	0
Oil Changed		Client Info		Not Changed	Changed	Not Changed
Filter Changed		Client Info		Not Changed	Changed	N/A
Sample Status				NORMAL	SEVERE	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	4	6	3
Chromium	ppm	ASTM D5185m	>20	4	6	2
Nickel	ppm	ASTM D5185m	>10	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>20	2	0	11
Lead	ppm	ASTM D5185m	>20	1	2	1
Copper	ppm	ASTM D5185m	>150	3	5	4
Tin	ppm	ASTM D5185m	>20	<1	<1	<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

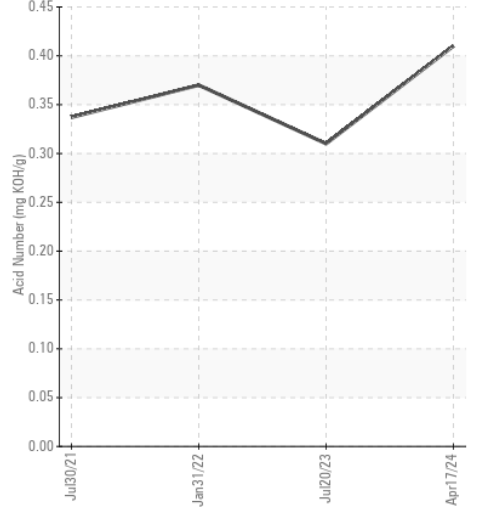
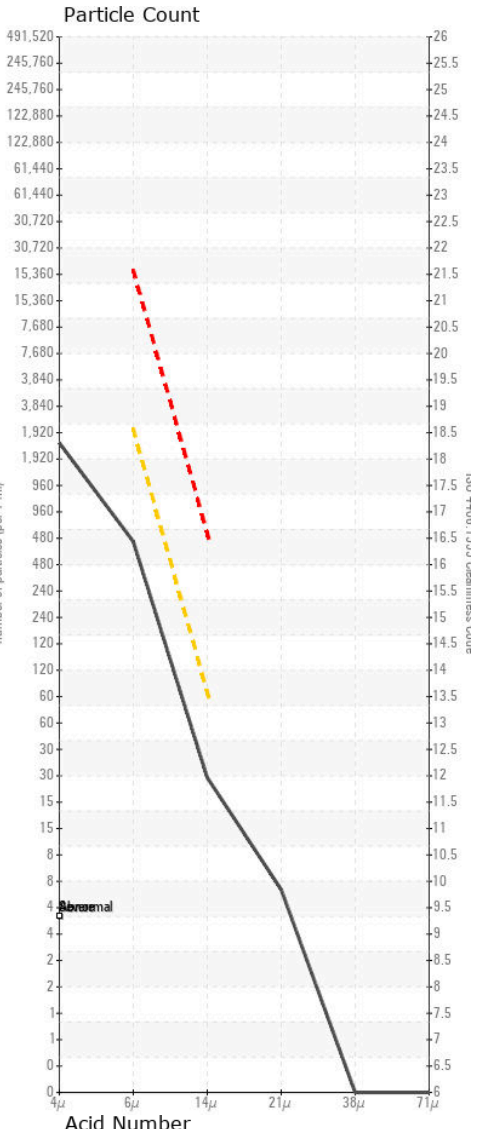
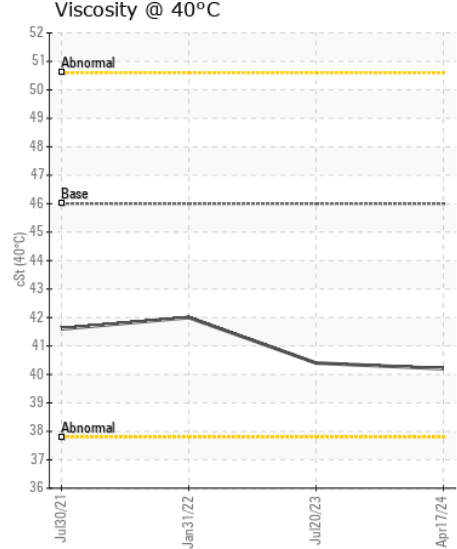
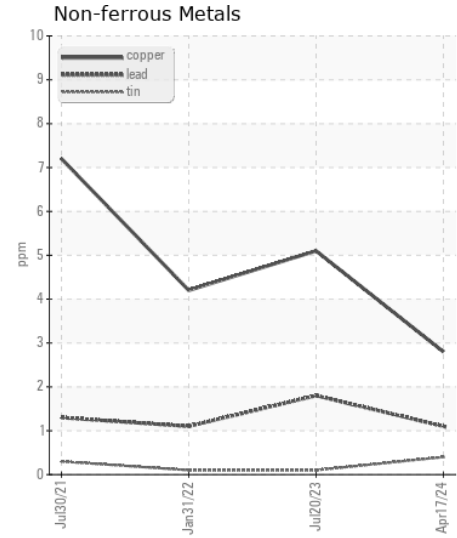
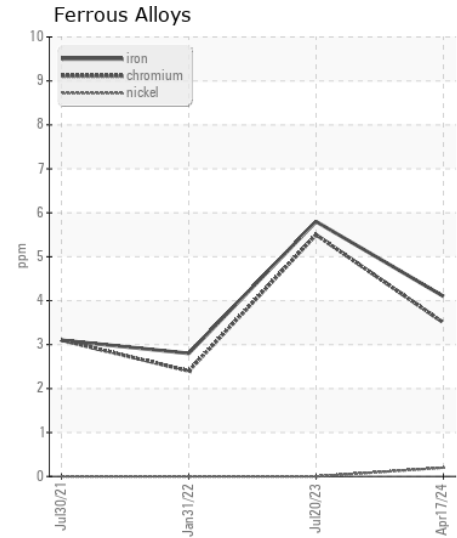
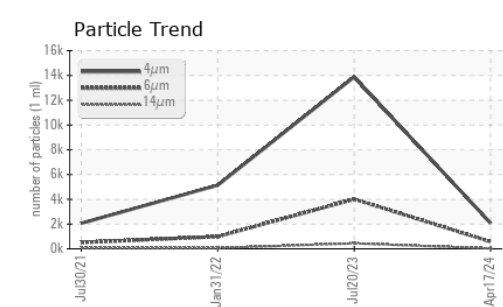
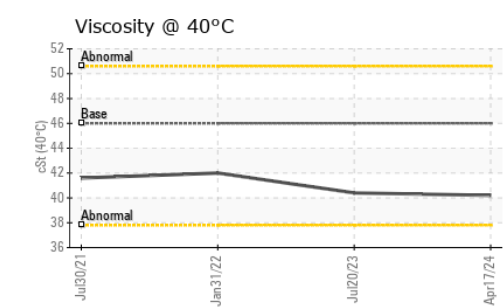
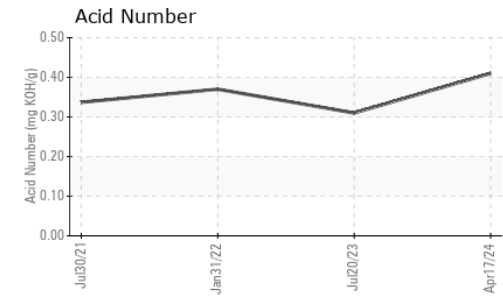
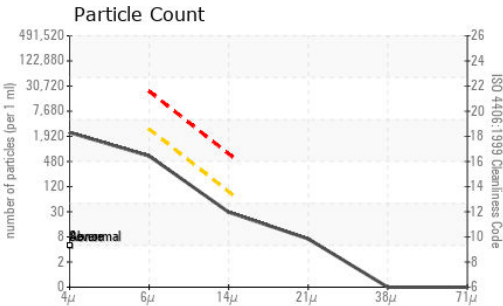
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185m	>20	3	2	2
Potassium	ppm	ASTM D5185m	>20	2	1	<1
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647		2075	13878	5136
Particles >6µm		ASTM D7647	>2500	571	4011	982
Particles >14µm		ASTM D7647	>80	26	438	60
Particles >21µm		ASTM D7647	>20	6	173	10
Particles >38µm		ASTM D7647	>4	0	20	2
Particles >71µm		ASTM D7647	>3	0	1	0
Oil Cleanliness		ISO 4406 (c)	>-/18/13	18/16/12	21/19/16	20/17/13
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

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<1	0	0
Boron	ppm	ASTM D5185m	14	0	0	2
Barium	ppm	ASTM D5185m	0.0	0	1	0
Molybdenum	ppm	ASTM D5185m	0.0	<1	<1	<1
Manganese	ppm	ASTM D5185m	0.0	0	0	<1
Magnesium	ppm	ASTM D5185m	2.6	10	4	3
Calcium	ppm	ASTM D5185m	49	54	64	112
Phosphorus	ppm	ASTM D5185m	354	307	342	325
Zinc	ppm	ASTM D5185m	419	418	437	401
Sulfur	ppm	ASTM D5185m	3719	1528	1622	1464
Acid Number (AN)	mg KOH/g	ASTM D8045		0.41	0.31	0.37
Visc @ 40°C	cSt	ASTM D445	46	40.2	40.4	42.0



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ASC0007335 **Received** : 23 Apr 2024
Lab Number : 06157620 **Tested** : 24 Apr 2024
Unique Number : 10993043 **Diagnosed** : 24 Apr 2024 - Wes Davis
Test Package : CONST

PALLET ONE
 1032 WILKINS RD
 BUTNER, NC
 US 27509
 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)