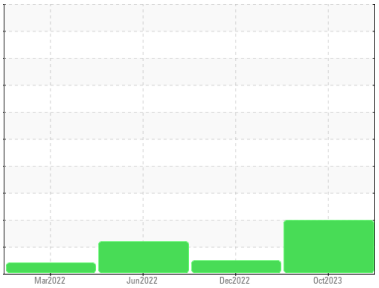
ASCENDUM

PROBLEM SUMMARY

Sample Rating Trend

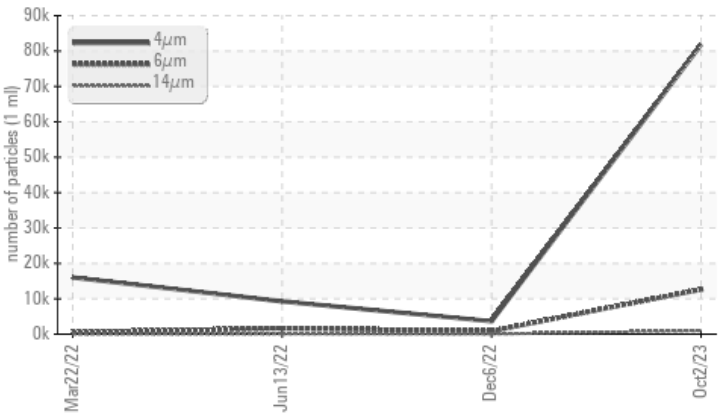


ISO

Area
Ascendum Machinery
Machine Id
VOLVO L150H RL68 (S/N 6811)
Component
Hydraulic System
Fluid
VOLVO SUPER HYDRAULIC OIL 46 (40 GAL)

COMPONENT CONDITION SUMMARY

Particle Trend



RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	NORMAL	ATTENTION
Particles >6µm		ASTM D7647	>2500	▲ **12632**	866	1650
Particles >14µm		ASTM D7647	>80	▲ **969**	35	▲ 90
Particles >21µm		ASTM D7647	>20	▲ **264**	4	▲ 26
Particles >38µm		ASTM D7647	>4	▲ **6**	0	1
Oil Cleanliness		ISO 4406 (c)	>--/18/13	▲ **24/21/17**	19/17/12	▲ 20/18/14

Customer Id: HILGREVC
Sample No.: ASC0001486
Lab Number: 05967713
Test Package: MOBCE

To manage this report scan the QR code

To discuss the diagnosis or test data:
Don Baldridge +1
don.b505@comcast.net

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Filter	---	---	?	We recommend you service the filters on this component.

HISTORICAL DIAGNOSIS

06 Dec 2022 Diag: Don Baldridge

NORMAL

Resample at the next service interval to monitor.All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

13 Jun 2022 Diag: Jonathan Hester

ISO

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. There is a moderate amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

22 Mar 2022 Diag: Angela Borella

ISO

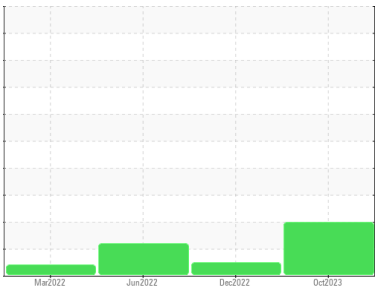
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

ASCENDUM

OIL ANALYSIS REPORT

Sample Rating Trend



ISO

Area
Ascendum Machinery
Machine Id
VOLVO L150H RL68 (S/N 6811)
Component
Hydraulic System
Fluid
VOLVO SUPER HYDRAULIC OIL 46 (40 GAL)

DIAGNOSIS

Recommendation
We recommend you service the filters on this component. Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

Contamination
There is a high amount of particulates present in the oil.

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

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**ASC0001486**	VCP0004359	VCP0000558
Sample Date		Client Info		**02 Oct 2023**	06 Dec 2022	13 Jun 2022
Machine Age	hrs	Client Info		**11628**	8536	6339
Oil Age	hrs	Client Info		**3092**	6337	831
Oil Changed		Client Info		**Not Changd**	Changed	Not Changd
Sample Status				**ABNORMAL**	NORMAL	ATTENTION

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	**10**	0	3
Chromium	ppm	ASTM D5185m	>20	**9**	0	2
Nickel	ppm	ASTM D5185m	>10	**0**	0	0
Titanium	ppm	ASTM D5185m		**<1**	0	<1
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>20	**1**	0	1
Lead	ppm	ASTM D5185m	>20	**<1**	0	<1
Copper	ppm	ASTM D5185m	>150	**2**	0	2
Tin	ppm	ASTM D5185m	>20	**0**	0	0
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	14	**0**	0	0
Barium	ppm	ASTM D5185m	0.0	**0**	1	0
Molybdenum	ppm	ASTM D5185m	0.0	**<1**	0	<1
Manganese	ppm	ASTM D5185m	0.0	**0**	0	<1
Magnesium	ppm	ASTM D5185m	2.6	**20**	57	2
Calcium	ppm	ASTM D5185m	49	**59**	24	63
Phosphorus	ppm	ASTM D5185m	354	**286**	263	344
Zinc	ppm	ASTM D5185m	419	**367**	326	414
Sulfur	ppm	ASTM D5185m	3719	**1023**	715	1646

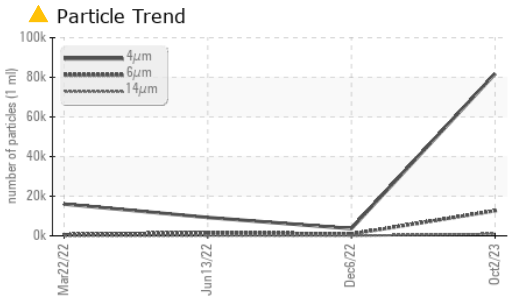
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	**6**	<1	3
Sodium	ppm	ASTM D5185m		**2**	0	3
Potassium	ppm	ASTM D5185m	>20	**2**	<1	0

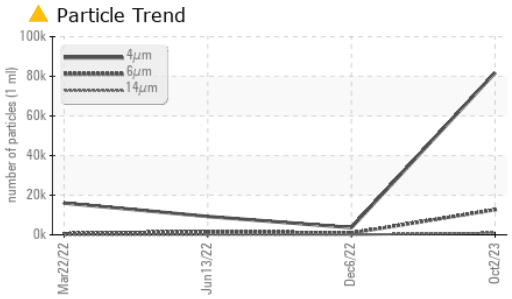
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		**81808**	3635	9256
Particles >6µm		ASTM D7647	>2500	▲ **12632**	866	1650
Particles >14µm		ASTM D7647	>80	▲ **969**	35	▲ 90
Particles >21µm		ASTM D7647	>20	▲ **264**	4	▲ 26
Particles >38µm		ASTM D7647	>4	▲ **6**	0	1
Particles >71µm		ASTM D7647	>3	**0**	0	0
Oil Cleanliness		ISO 4406 (c)	>--/18/13	▲ **24/21/17**	19/17/12	▲ 20/18/14

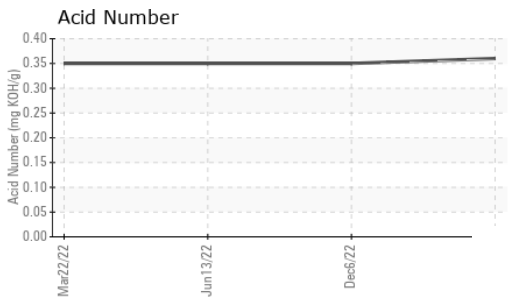
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.36**	0.35	0.35

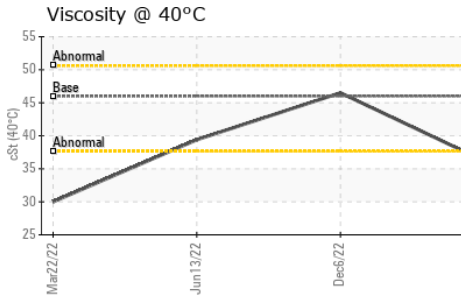
ASCENDUM

OIL ANALYSIS REPORT



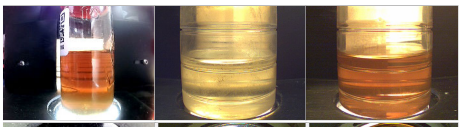
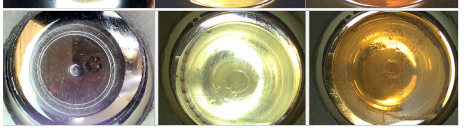




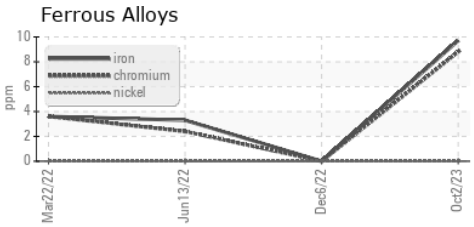


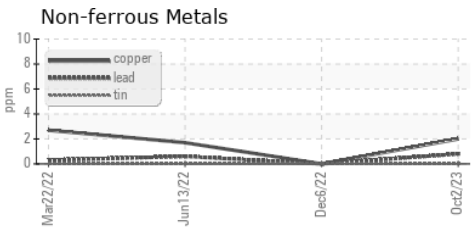
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	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
Free Water	scalar	*Visual		**NEG**	NEG	NEG

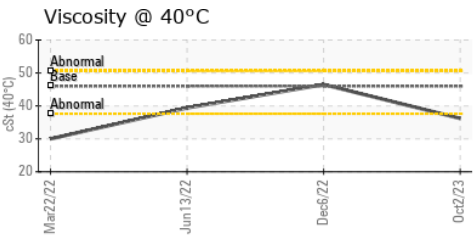
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	**36.2**	46.5	39.4

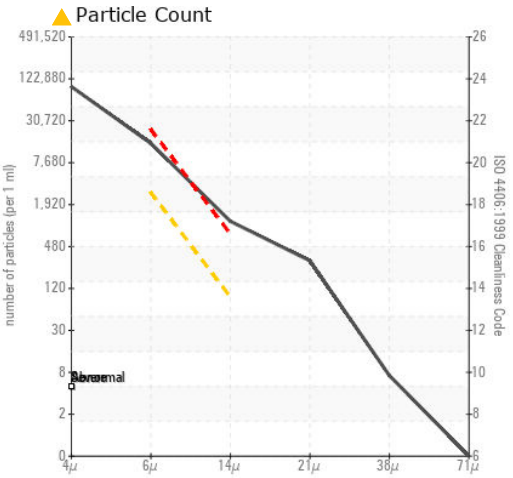
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

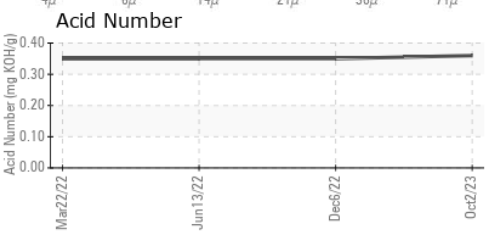
GRAPHS











Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ASC0001486
Lab Number : 05967713
Unique Number : 10674264
Test Package : MOBCE

Received : 03 Oct 2023
Diagnosed : 05 Oct 2023
Diagnostician : Don Baldridge

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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