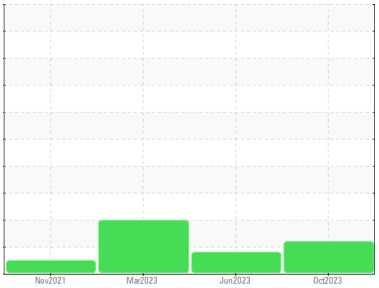
ASCENDUM

PROBLEM SUMMARY

Sample Rating Trend

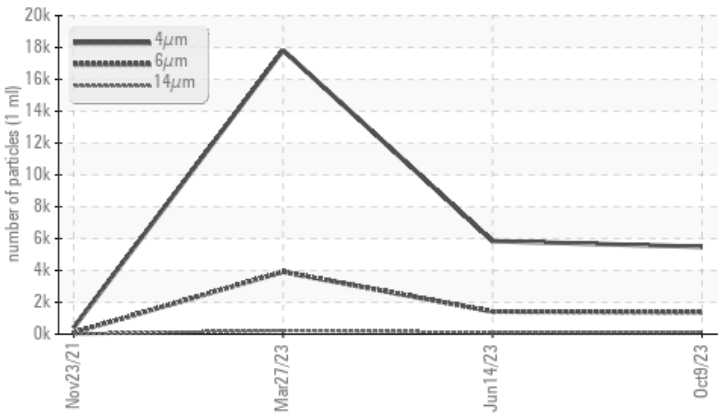


ISO

Area
Ascendum Machinery
Machine Id
VOLVO L180H 15 (S/N 5263)
Component
Hydraulic System
Fluid
VOLVO SUPER HYDRAULIC OIL 46 (--- 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				ATTENTION	ATTENTION	ABNORMAL
Particles >14µm		ASTM D7647	>80	▲ **116**	▲ 101	▲ 223
Particles >21µm		ASTM D7647	>20	▲ **40**	26	▲ 68
Oil Cleanliness		ISO 4406 (c)	>--/18/13	▲ **20/18/14**	▲ 20/18/14	▲ 21/19/15

Customer Id: EGGLIN
Sample No.: ASC0005023
Lab Number: 05978213
Test Package: CONST

To manage this report scan the QR code

To discuss the diagnosis or test data:
Wes Davis +1 905-569-8600 x223
wesd@wearcheck.ca

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

14 Jun 2023 Diag: Wes Davis

ISO

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 light 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

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27 Mar 2023 Diag: Don Baldridge

ISO

We recommend you service the filters on this component. Resample at the next service interval to monitor.All component wear rates are normal. There is a high 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

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23 Nov 2021 Diag: Don Baldridge

NORMAL

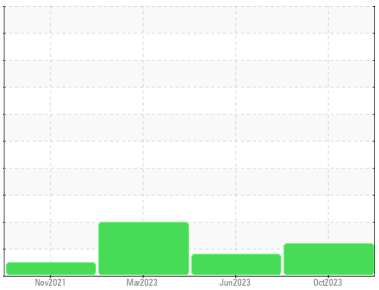
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

view report

ASCENDUM

OIL ANALYSIS REPORT

Sample Rating Trend



ISO

Area
Ascendum Machinery
Machine Id
VOLVO L180H 15 (S/N 5263)
Component
Hydraulic System
Fluid
VOLVO SUPER HYDRAULIC OIL 46 (--- 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 light amount of silt (particulates < 14 microns in size) 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		**ASC0005023**	ASC0000128	VCP0005496
Sample Date		Client Info		**09 Oct 2023**	14 Jun 2023	27 Mar 2023
Machine Age	hrs	Client Info		**9558**	8015	7565
Oil Age	hrs	Client Info		**1543**	4475	3540
Oil Changed		Client Info		**Not Changd**	Changed	Not Changd
Sample Status				**ATTENTION**	ATTENTION	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	**4**	1	4
Chromium	ppm	ASTM D5185m	>20	**1**	<1	2
Nickel	ppm	ASTM D5185m	>10	**0**	0	<1
Titanium	ppm	ASTM D5185m		**<1**	<1	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>20	**0**	<1	1
Lead	ppm	ASTM D5185m	>20	**0**	0	1
Copper	ppm	ASTM D5185m	>150	**2**	2	13
Tin	ppm	ASTM D5185m	>20	**0**	0	<1
Antimony	ppm	ASTM D5185m		**---**	---	---
Vanadium	ppm	ASTM D5185m		**0**	<1	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	**1**	0	<1
Molybdenum	ppm	ASTM D5185m	0.0	**0**	0	<1
Manganese	ppm	ASTM D5185m	0.0	**0**	0	<1
Magnesium	ppm	ASTM D5185m	2.6	**11**	4	11
Calcium	ppm	ASTM D5185m	49	**54**	64	60
Phosphorus	ppm	ASTM D5185m	354	**313**	353	306
Zinc	ppm	ASTM D5185m	419	**378**	455	405
Sulfur	ppm	ASTM D5185m	3719	**1743**	2467	1851

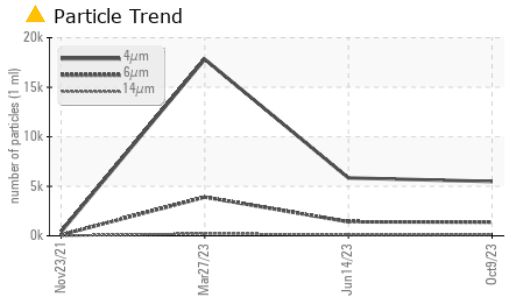
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	**<1**	<1	2
Sodium	ppm	ASTM D5185m		**3**	1	0
Potassium	ppm	ASTM D5185m	>20	**0**	0	2

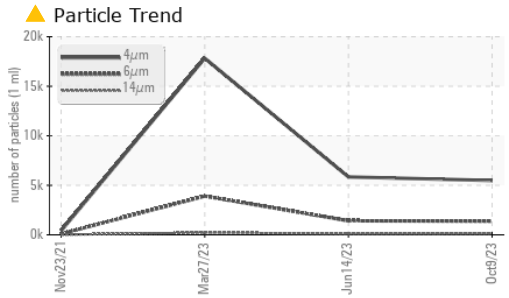
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		**5482**	5842	17829
Particles >6µm		ASTM D7647	>2500	**1369**	1416	▲ 3910
Particles >14µm		ASTM D7647	>80	▲ **116**	▲ 101	▲ 223
Particles >21µm		ASTM D7647	>20	▲ **40**	26	▲ 68
Particles >38µm		ASTM D7647	>4	**3**	1	▲ 8
Particles >71µm		ASTM D7647	>3	**0**	0	0
Oil Cleanliness		ISO 4406 (c)	>--/18/13	▲ **20/18/14**	▲ 20/18/14	▲ 21/19/15

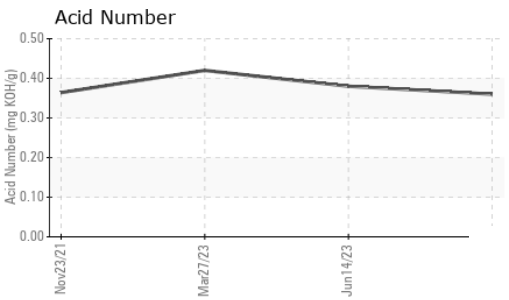
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.36**	0.38	0.42

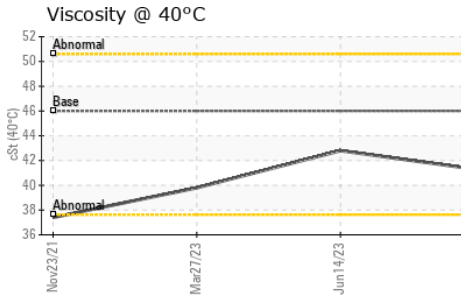
ASCENDUM

OIL ANALYSIS REPORT



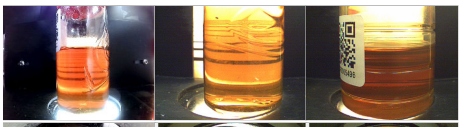
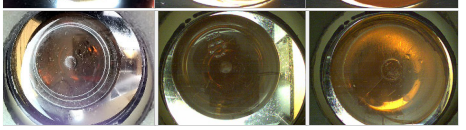




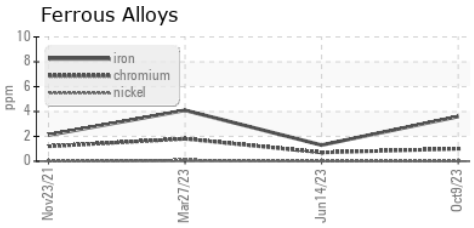


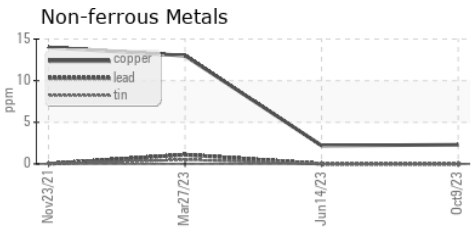
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt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

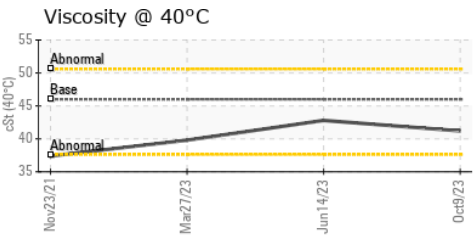
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	**41.2**	42.8	39.8

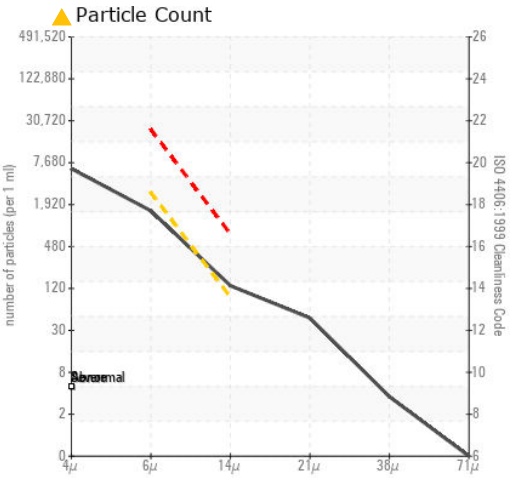
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

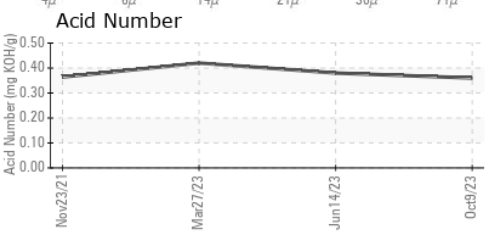
GRAPHS











Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ASC0005023 **Received** : 13 Oct 2023
Lab Number : 05978213 **Diagnosed** : 16 Oct 2023
Unique Number : 10695508 **Diagnostician** : Wes Davis
Test Package : CONST

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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