ASCENDUM

PROBLEM SUMMARY

Sample Rating Trend



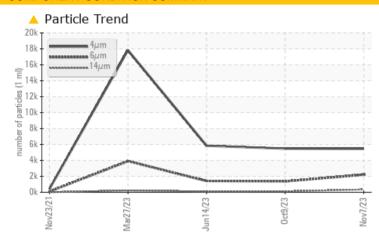


Ascendum Machinery Machine Id VOLVO L180H 15 (S/N 5263)

Hydraulic System

VOLVO SUPER HYDRAULIC OIL 46 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS									
Sample Status			ABNORMAL	ATTENTION	ATTENTION				
Particles >14μm	ASTM D7647	>80	△ 350	<u></u> 116	<u></u> 101				
Particles >21μm	ASTM D7647	>20	138	4 0	26				
Particles >38μm	ASTM D7647	>4	<u> </u>	3	1				
Oil Cleanliness	ISO 4406 (c)	>/18/13	20/18/16	20/18/14	20/18/14				

Customer Id: EGGLIN Sample No.: ASC0005329 Lab Number: 06006970 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 advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.
Resample			?	We recommend an early resample to monitor this condition.
Filter Fluid			?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.

HISTORICAL DIAGNOSIS

09 Oct 2023 Diag: Wes Davis

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 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.



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.



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.



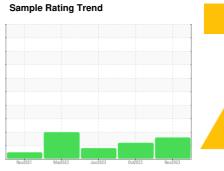
ASCENDUM

OIL ANALYSIS REPORT





VOLVO SUPER HYDRAULIC OIL 46 (--- GAL)





DIAGNOSIS

Recommendation

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is a moderate 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.

COLIC OIL 40 (- GAL)	Nov2021	Mar2023	Jun 2023 Oct 2023	Nov2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		ASC0005329	ASC0005023	ASC0000128
Sample Date		Client Info		07 Nov 2023	09 Oct 2023	14 Jun 2023
Machine Age	hrs	Client Info		10011	9558	8015
Oil Age	hrs	Client Info		8468	1543	4475
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				ABNORMAL	ATTENTION	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	4	4	1
Chromium	ppm	ASTM D5185m	>20	2	1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	1	0	<1
Lead	ppm	ASTM D5185m	>20	<1	0	0
Copper	ppm	ASTM D5185m	>150	2	2	2
Tin	ppm	ASTM D5185m	>20	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	<1
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	0
Manganese	ppm	ASTM D5185m	0.0	0	0	0
Magnesium	ppm	ASTM D5185m	2.6	17	11	4
Calcium	ppm	ASTM D5185m	49	63	54	64
Phosphorus	ppm	ASTM D5185m	354	336	313	353
Zinc	ppm	ASTM D5185m	419	415	378	455
Sulfur	ppm	ASTM D5185m	3719	1815	1743	2467
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	2	<1	<1
Sodium	ppm	ASTM D5185m		2	3	1
Potassium	ppm	ASTM D5185m	>20	<1	0	0
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647		5454	5482	5842
Particles >6µm		ASTM D7647	>2500	2210	1369	1416
Particles >14μm		ASTM D7647	>80	4 350	<u> </u>	<u></u> 101
Particles >21μm		ASTM D7647	>20	138	4 0	26
Particles >38µm		ASTM D7647	>4	<u>^</u> 9	3	1
Particles >71μm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/18/13	<u>^</u> 20/18/16	2 0/18/14	2 0/18/14
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
A at al. N.L. comb. a. c. (ANI)	1/011/	AOTH DOOLS		0.00	0.00	0.00

0.28

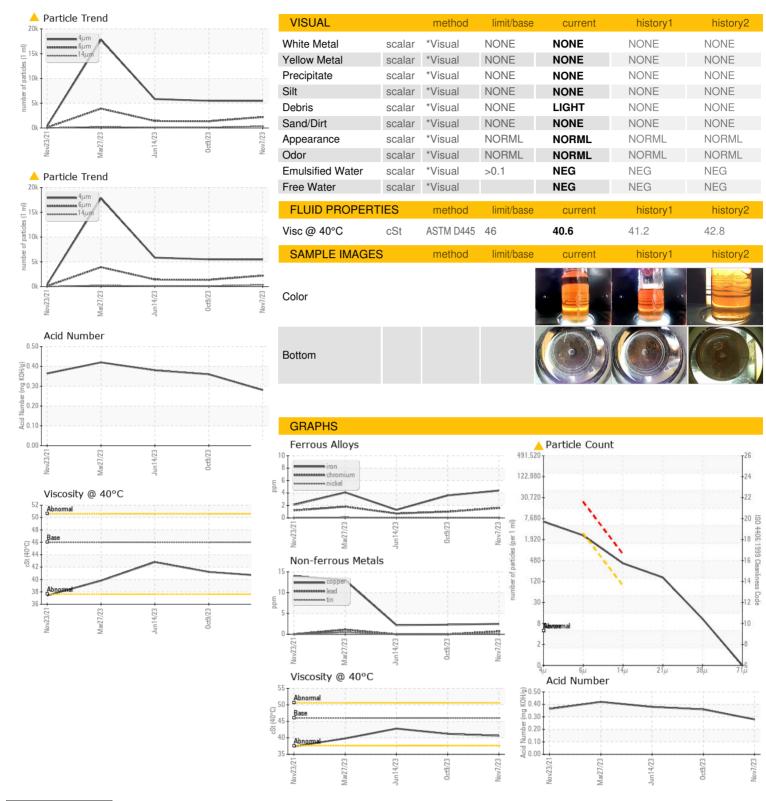
Acid Number (AN) mg KOH/g ASTM D8045

0.36

0.38

ASCENDUM

OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No.

Lab Number

Unique Number Test Package

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : ASC0005329 Received : 06006970 Diagnosed : 10740732 Diagnostician

: 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)

: 14 Nov 2023

: 15 Nov 2023 : Wes Davis

EGGER WOOD PRODUCTS

300 EGGER PARKWAY LINWOOD, NC US 27299

Contact: HELMUT THOMAY

helmut.thomay@egger.com

T: F: