



ASCENDUM

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Area

Ascendum Machinery

Machine Id

VOLVO L150H 4680

Component

Hydraulic System

Fluid

VOLVO SUPER HYDRAULIC OIL 46 (--- GAL)

RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor. (Customer Sample Comment: Top Up Amount: 5 gallons GAL)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ASC0007108	ASC0001060	VCP0005332
Sample Date		Client Info		15 Apr 2024	23 Aug 2023	06 Mar 2023
Machine Age	hrs	Client Info		9008	8495	8007
Oil Age	hrs	Client Info		8520	488	3975
Filter Age	hrs	Client Info		0	488	0
Oil Changed		Client Info		Oil Added	Not Chngd	Changed
Filter Changed		Client Info		Not Chngd	Not Chngd	Changed
Sample Status				ABNORMAL	ATTENTION	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	4	3	8
Chromium	ppm	ASTM D5185m	>20	<1	<1	2
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	1	3
Lead	ppm	ASTM D5185m	>20	<1	0	2
Copper	ppm	ASTM D5185m	>150	2	2	4
Tin	ppm	ASTM D5185m	>20	0	0	0
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

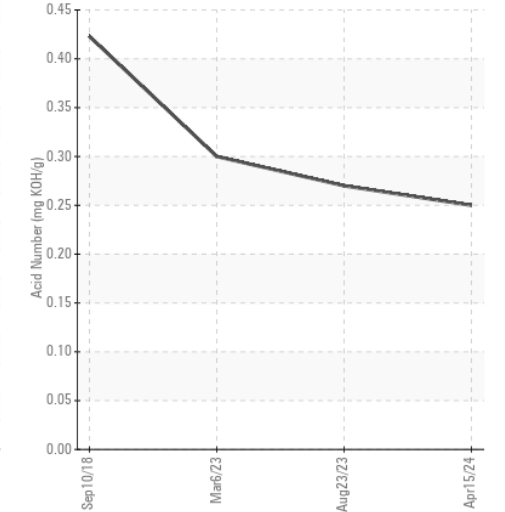
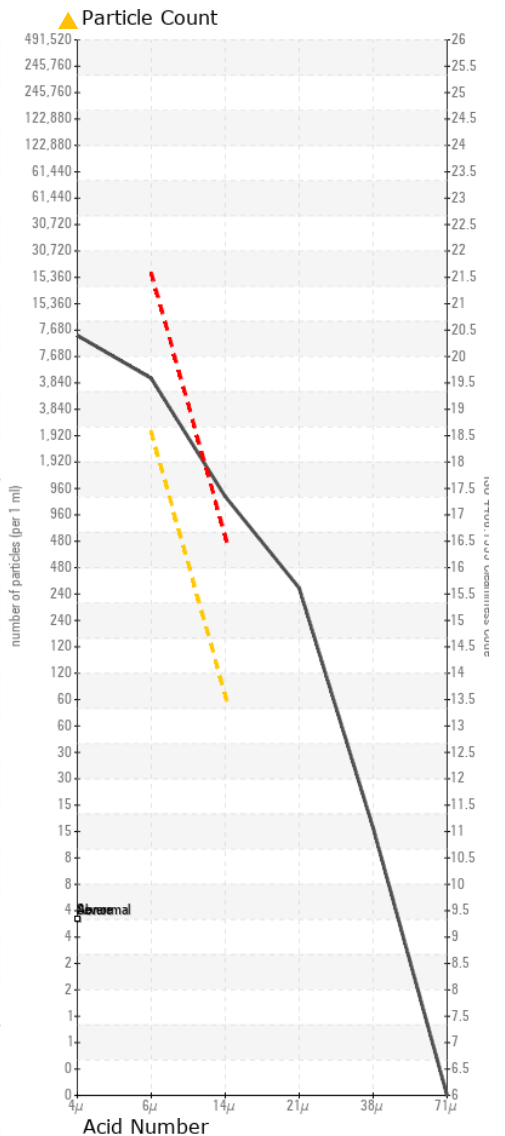
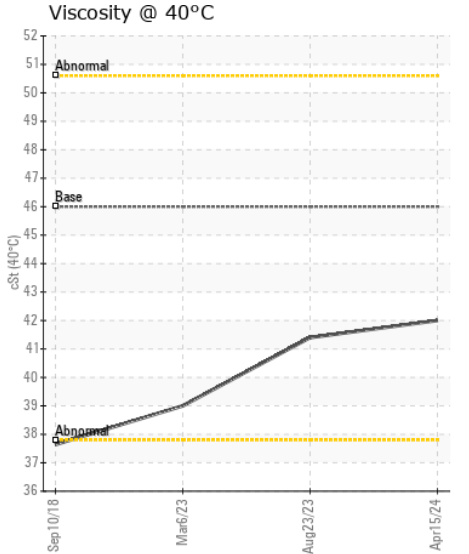
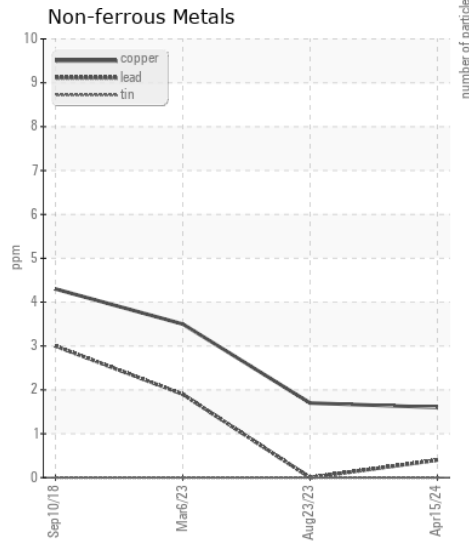
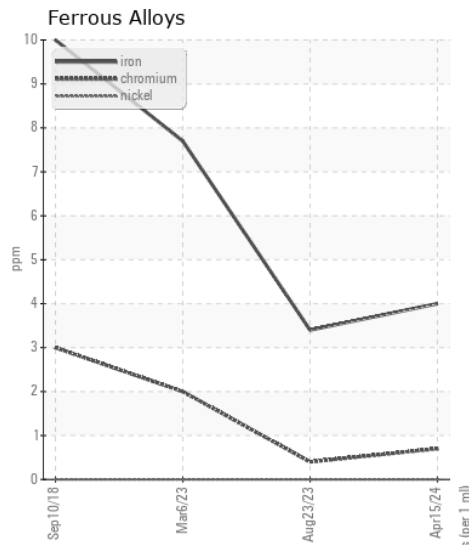
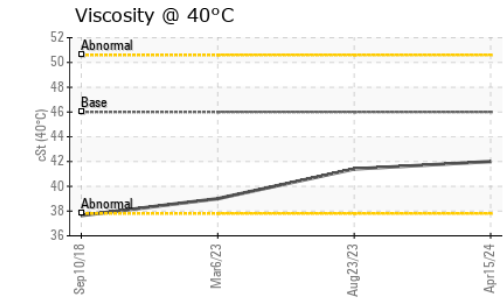
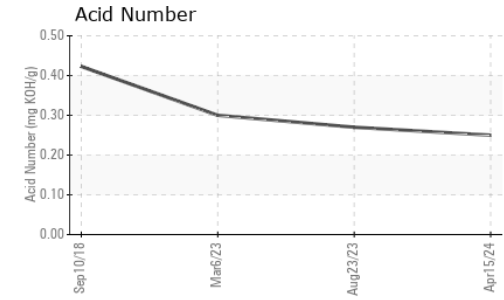
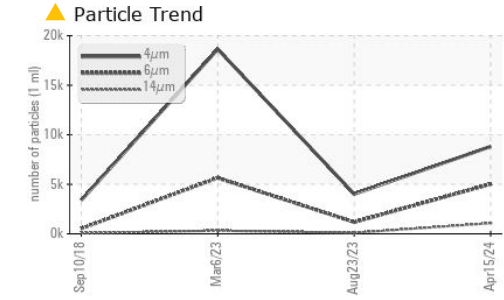
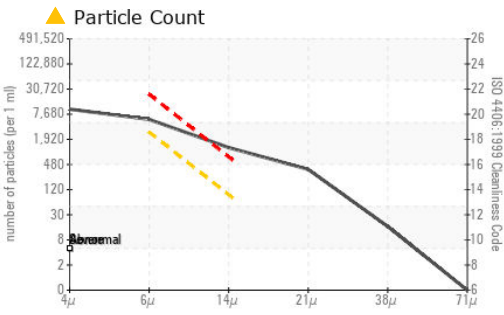
There is a high amount of particulates present in the oil. Moderate concentration of visible dirt/debris present in the oil.

Silicon	ppm	ASTM D5185m	>20	5	5	7
Potassium	ppm	ASTM D5185m	>20	10	0	2
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647		8813	4013	18634
Particles >6µm		ASTM D7647	>2500	▲ 5023	1178	▲ 5648
Particles >14µm		ASTM D7647	>80	▲ 1069	94	▲ 319
Particles >21µm		ASTM D7647	>20	▲ 323	22	▲ 80
Particles >38µm		ASTM D7647	>4	▲ 14	1	7
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>-/18/13	▲ 20/20/17	19/17/14	▲ 21/20/15
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	▲ MODER	NONE	LIGHT
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 acceptable for the time in service.

Sodium	ppm	ASTM D5185m		4	3	<1
Boron	ppm	ASTM D5185m	14	0	0	0
Barium	ppm	ASTM D5185m	0.0	0	0	0
Molybdenum	ppm	ASTM D5185m	0.0	<1	0	<1
Manganese	ppm	ASTM D5185m	0.0	0	0	0
Magnesium	ppm	ASTM D5185m	2.6	<1	0	2
Calcium	ppm	ASTM D5185m	49	68	59	60
Phosphorus	ppm	ASTM D5185m	354	290	352	301
Zinc	ppm	ASTM D5185m	419	358	430	395
Sulfur	ppm	ASTM D5185m	3719	2763	3577	3313
Acid Number (AN)	mg KOH/g	ASTM D8045		0.25	0.27	0.30
Visc @ 40°C	cSt	ASTM D445	46	42.0	41.4	39.0



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ASC0007108
Lab Number : 06151908
Unique Number : 10981986
Test Package : CONST

Received : 17 Apr 2024
Tested : 18 Apr 2024
Diagnosed : 19 Apr 2024 - Don Baldrige

HUDSON PAVING
 120 YATES HILL RD
 ROCKINGHAM, NC
 US 28379
 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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