



ASCENDUM

OIL ANALYSIS REPORT



Area

Ascendum Machinery

Machine Id

VOLVO L150H RL66 (S/N L150HV6551)

Component

Hydraulic System

Fluid

VOLVO SUPER HYDRAULIC OIL 46 (40 GAL)

WEAR

NORMAL

CONTAMINATION

ATTENTION

FLUID CONDITION

NORMAL

RECOMMENDATION

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ASC0009906	ASC0007697	ASC0001209
Sample Date		Client Info		09 May 2024	01 Mar 2024	29 Aug 2023
Machine Age	hrs	Client Info		15953	15485	14000
Oil Age	hrs	Client Info		8388	9405	6080
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Chngd	Oil Added
Filter Changed		Client Info		Changed	Not Chngd	Not Chngd
Sample Status				ATTENTION	ATTENTION	NORMAL

WEAR

All component wear rates are normal.

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

CONTAMINATION

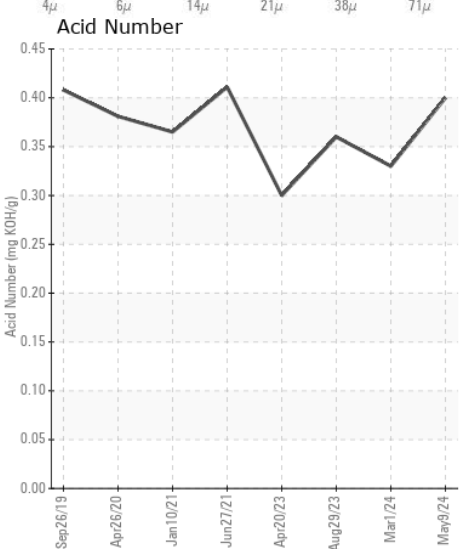
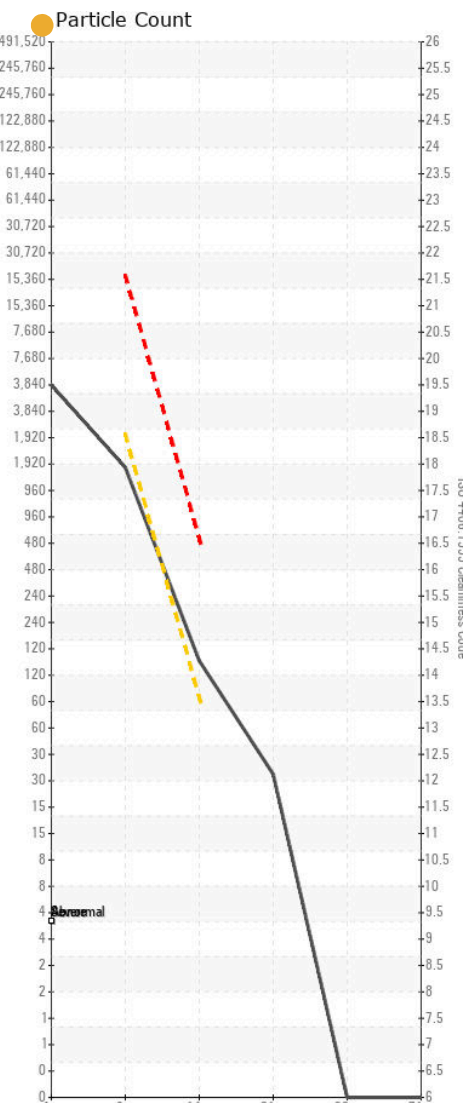
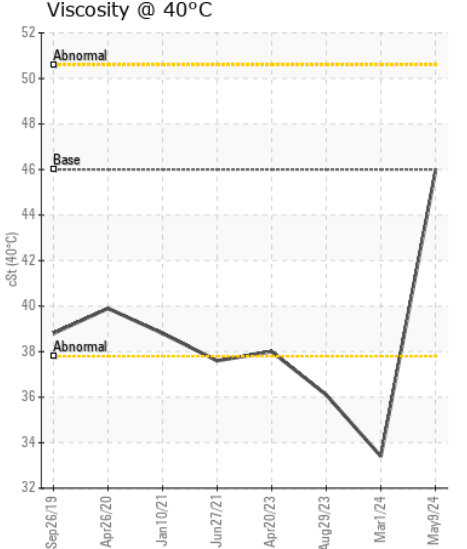
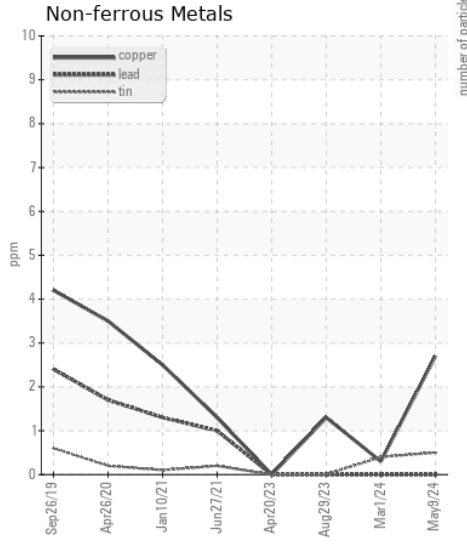
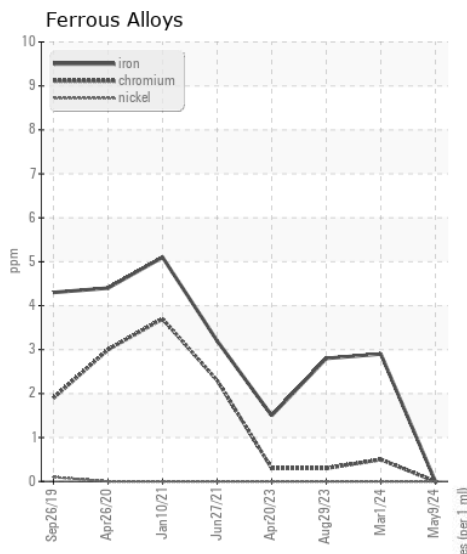
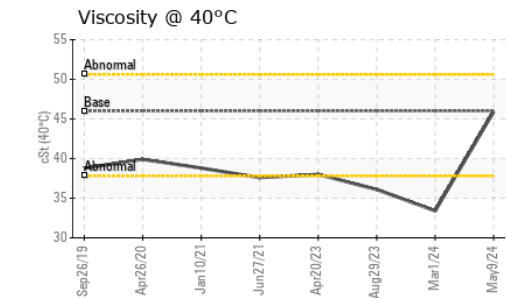
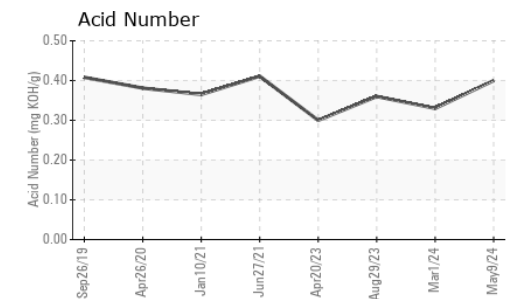
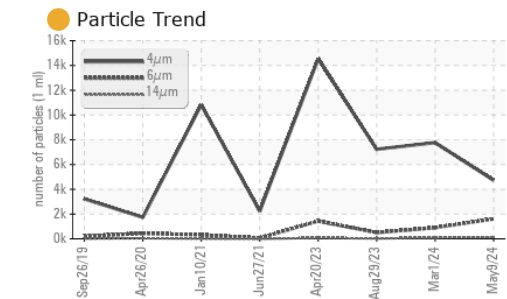
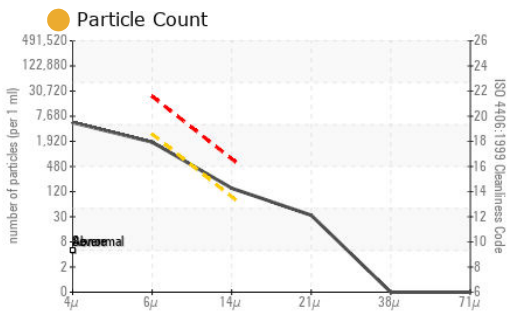
There is a light amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>20	<1	<1	2
Potassium	ppm	ASTM D5185m	>20	0	0	0
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647		4728	7770	7230
Particles >6µm		ASTM D7647	>2500	1607	897	506
Particles >14µm		ASTM D7647	>80	128	86	22
Particles >21µm		ASTM D7647	>20	29	27	4
Particles >38µm		ASTM D7647	>4	0	2	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>-/18/13	19/18/14	20/17/14	20/16/12
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	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	3	2
Boron	ppm	ASTM D5185m	14	0	0	0
Barium	ppm	ASTM D5185m	0.0	0	0	6
Molybdenum	ppm	ASTM D5185m	0.0	0	0	0
Manganese	ppm	ASTM D5185m	0.0	1	0	0
Magnesium	ppm	ASTM D5185m	2.6	0	0	6
Calcium	ppm	ASTM D5185m	49	50	45	38
Phosphorus	ppm	ASTM D5185m	354	338	315	304
Zinc	ppm	ASTM D5185m	419	447	364	373
Sulfur	ppm	ASTM D5185m	3719	2721	1113	1533
Acid Number (AN)	mg KOH/g	ASTM D8045		0.40	0.33	0.36
Visc @ 40°C	cSt	ASTM D445	46	45.9	33.4	36.1



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ASC0009906
Lab Number : 06177064
Unique Number : 11023117
Test Package : CONST

Received : 13 May 2024
Tested : 14 May 2024
Diagnosed : 14 May 2024 - Wes Davis

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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)