



ASCENDUM

OIL ANALYSIS REPORT

WEAR	ATTENTION
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL



Area
Ascendum Machinery/500 Hour CSA
Machine Id
VOLVO L150H 2202 (S/N L150HV7017)
Component
Hydraulic System
Fluid
VOLVO SUPER HYDRAULIC OIL 46 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ASC0010059	ASC0008798	ASC0006290
Sample Date		Client Info		23 Apr 2024	07 Mar 2024	10 Jan 2024
Machine Age	hrs	Client Info		7046	6579	6052
Oil Age	hrs	Client Info		3046	2579	2052
Filter Age	hrs	Client Info		1046	579	2052
Oil Changed		Client Info		Not Changed	Not Changed	Not Changed
Filter Changed		Client Info		Not Changed	Not Changed	Changed
Sample Status				ATTENTION	ATTENTION	ABNORMAL

WEAR

The aluminum level is marginal. All other component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	8	6	<1
Chromium	ppm	ASTM D5185m	>20	<1	<1	0
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	19	17	1
Lead	ppm	ASTM D5185m	>20	<1	0	0
Copper	ppm	ASTM D5185m	>150	5	5	0
Tin	ppm	ASTM D5185m	>20	0	0	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

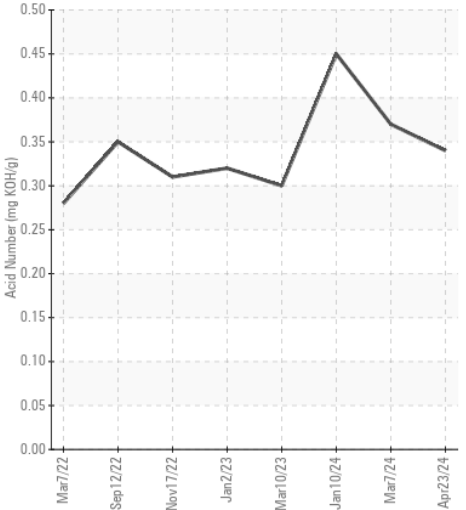
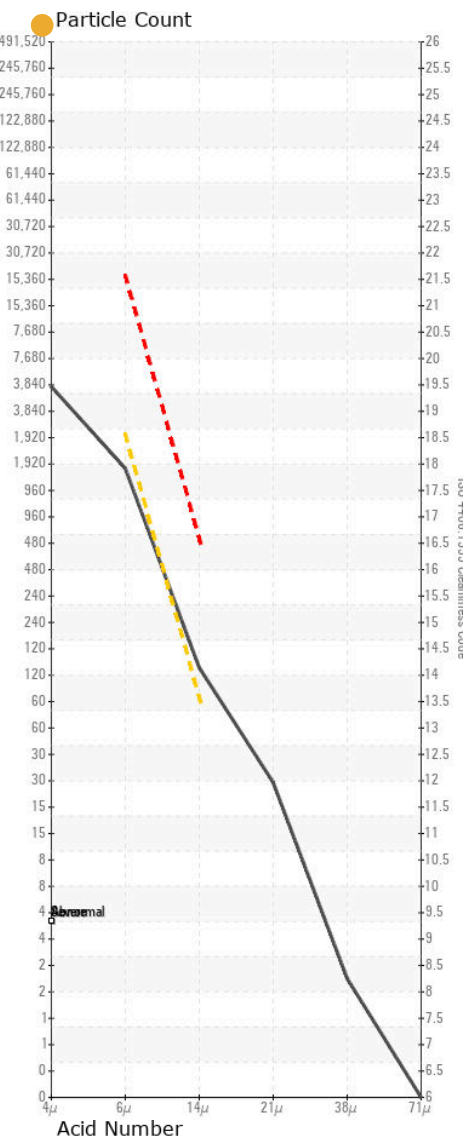
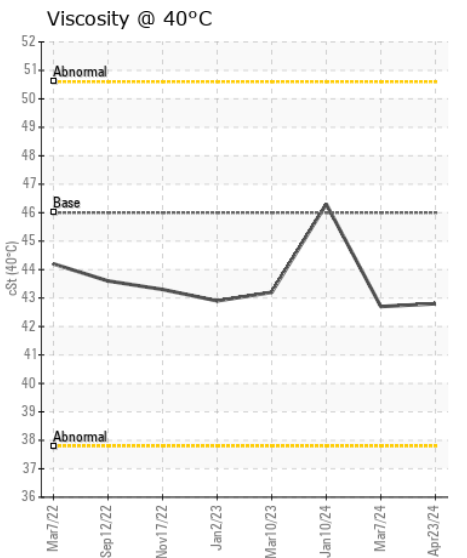
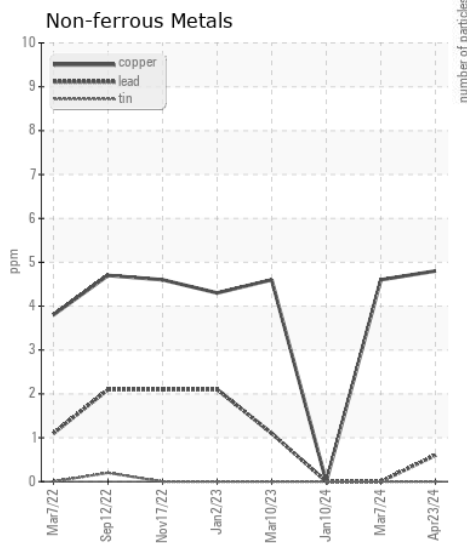
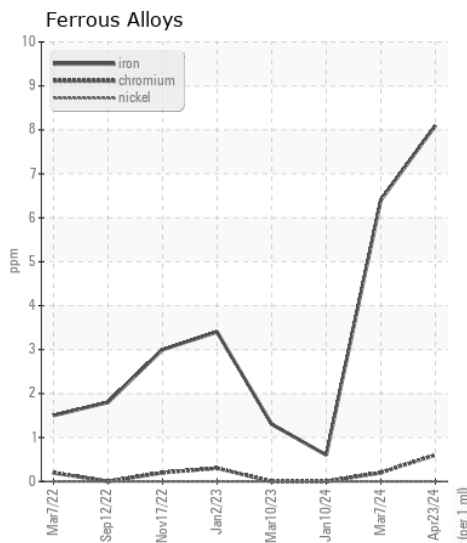
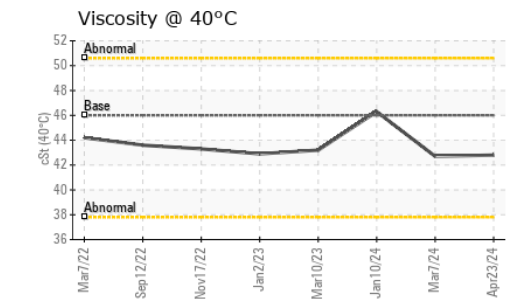
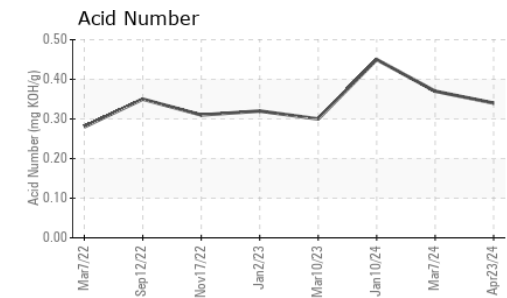
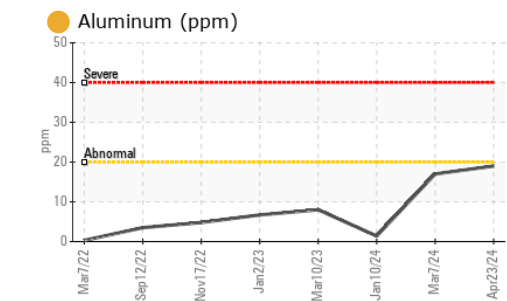
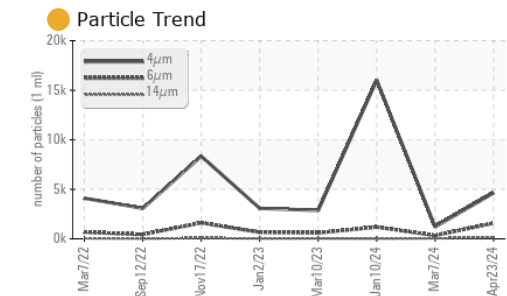
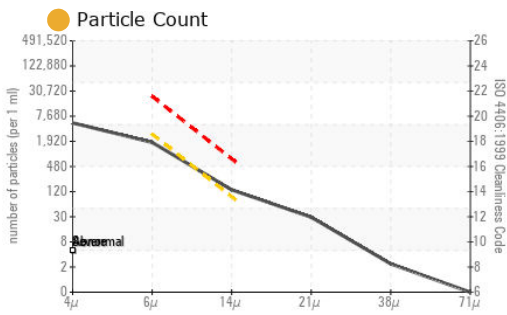
There is a moderate amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>20	20	18	<1
Potassium	ppm	ASTM D5185m	>20	1	0	0
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647		4630	1200	16011
Particles >6µm		ASTM D7647	>2500	1587	337	1189
Particles >14µm		ASTM D7647	>80	117	44	15
Particles >21µm		ASTM D7647	>20	26	14	2
Particles >38µm		ASTM D7647	>4	2	1	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>-/18/13	19/18/14	17/16/13	21/17/11
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

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		3	3	0
Boron	ppm	ASTM D5185m	14	0	0	0
Barium	ppm	ASTM D5185m	0.0	0	0	0
Molybdenum	ppm	ASTM D5185m	0.0	0	0	0
Manganese	ppm	ASTM D5185m	0.0	0	0	0
Magnesium	ppm	ASTM D5185m	2.6	<1	0	0
Calcium	ppm	ASTM D5185m	49	49	35	60
Phosphorus	ppm	ASTM D5185m	354	333	270	353
Zinc	ppm	ASTM D5185m	419	413	350	442
Sulfur	ppm	ASTM D5185m	3719	1744	1395	883
Acid Number (AN)	mg KOH/g	ASTM D8045		0.34	0.37	0.45
Visc @ 40°C	cSt	ASTM D445	46	42.8	42.7	46.3



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ASC0010059
Lab Number : 06160276
Unique Number : 10995699
Test Package : CONST

Received : 25 Apr 2024
Tested : 26 Apr 2024
Diagnosed : 26 Apr 2024 - Don Baldrige

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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)