



ASCENDUM

OIL ANALYSIS REPORT



Area

Ascendum Machinery

Machine Id

VOLVO L90H 623470

Component

Hydraulic System

Fluid

FIRE-RESISTANT FLUID ISO 46 (--- GAL)

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ASC0009666	VCP306348	VCP224483
Sample Date		Client Info		20 May 2024	10 Feb 2021	08 Jun 2018
Machine Age	hrs	Client Info		12412	8006	3959
Oil Age	hrs	Client Info		4406	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changed	Changed	Changed
Filter Changed		Client Info		Not Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<1	7	5
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	<1	<1
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	3	2
Lead	ppm	ASTM D5185m	>20	0	1	1
Copper	ppm	ASTM D5185m	>20	<1	6	8
Tin	ppm	ASTM D5185m	>20	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

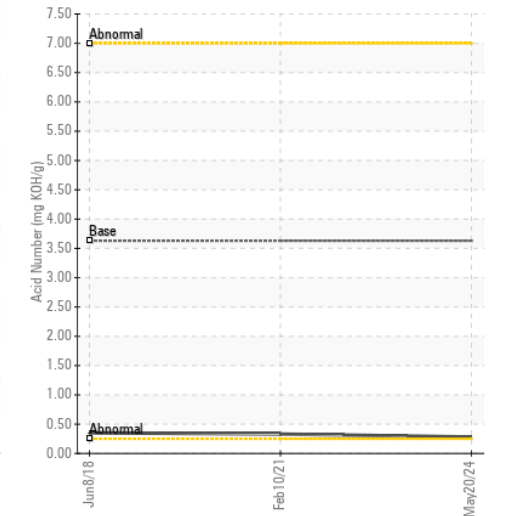
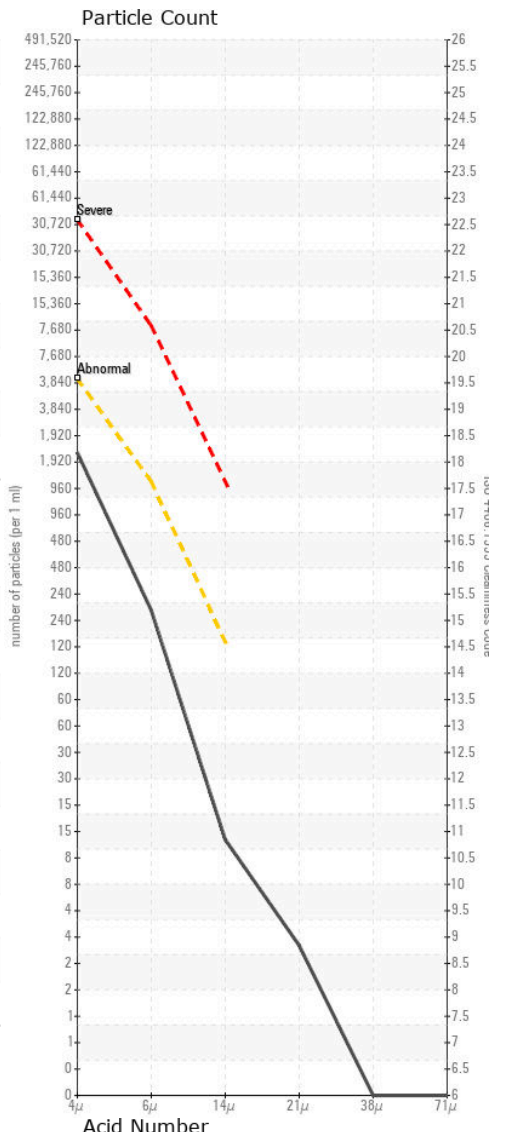
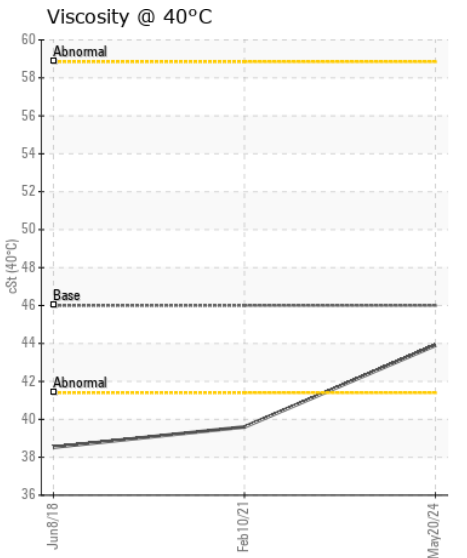
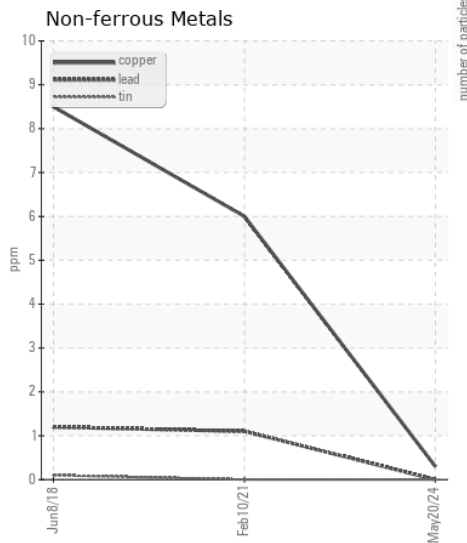
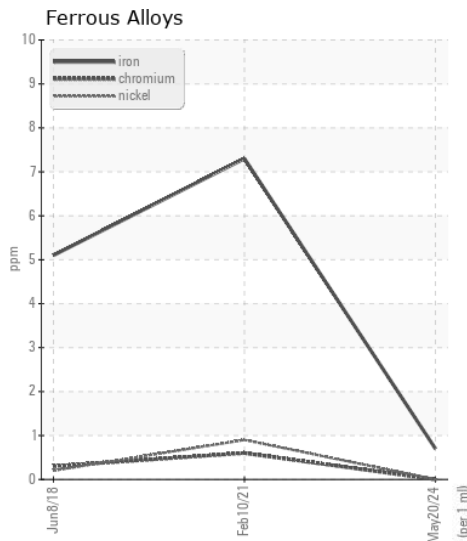
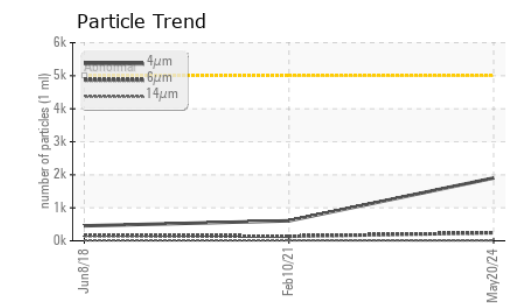
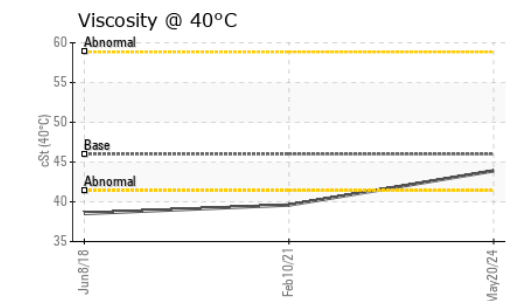
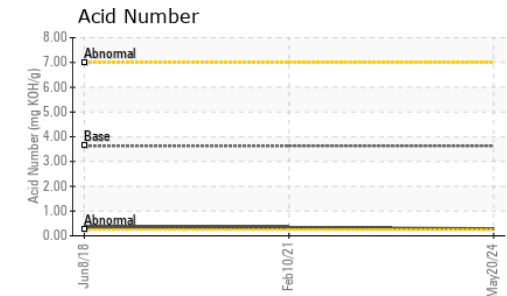
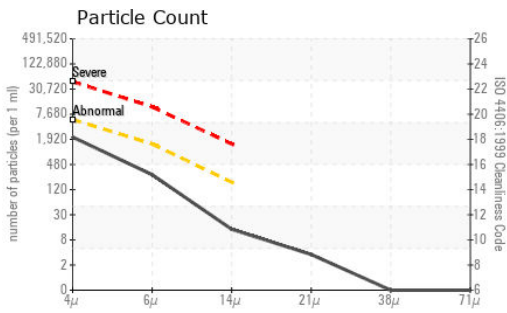
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>20	3	10	12
Potassium	ppm	ASTM D5185m	>20	1	5	2
Water	%	ASTM D6304	>55	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	1902	607	454
Particles >6µm		ASTM D7647	>1300	241	136	158
Particles >14µm		ASTM D7647	>160	12	15	15
Particles >21µm		ASTM D7647	>40	3	2	4
Particles >38µm		ASTM D7647	>10	0	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/15/11	16/14/11	16/14/11
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	>55	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	2	1
Boron	ppm	ASTM D5185m	5	0	<1	2
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	5	0	<1	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	5	1	<1	0
Calcium	ppm	ASTM D5185m	50	56	104	70
Phosphorus	ppm	ASTM D5185m	175	348	312	296
Zinc	ppm	ASTM D5185m	62	444	407	408
Sulfur	ppm	ASTM D5185m	500	2471	1882	2562
Acid Number (AN)	mg KOH/g	ASTM D8045	3.63	0.28	0.331	0.353
Visc @ 40°C	cSt	ASTM D445	46	43.9	39.6	38.53



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ASC0009666 **Received** : 24 May 2024
Lab Number : 06190972 **Tested** : 30 May 2024
Unique Number : 11047724 **Diagnosed** : 30 May 2024 - Don Baldrige
Test Package : CONST (Additional Tests: KF, pH, ReserveAlk)

IAA - INSURANCE AUTO AUCTIONS - OAK BROOK
 701 HARGER RD, SUITE 201
 OAK BROOK, IL
 US 60523
 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)

T:
F: