



ASCENDUM

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	ATTENTION



Machine Id
VOLVO A40G 341237
Component
Hydraulic System
Fluid
AW HYDRAULIC OIL ISO 32 (--- GAL)

RECOMMENDATION

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

WEAR

All component wear rates are normal.

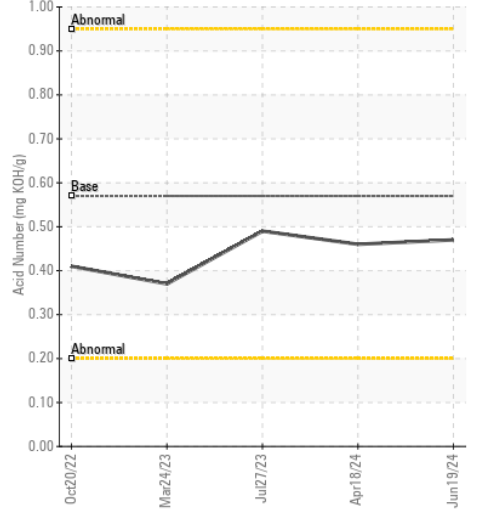
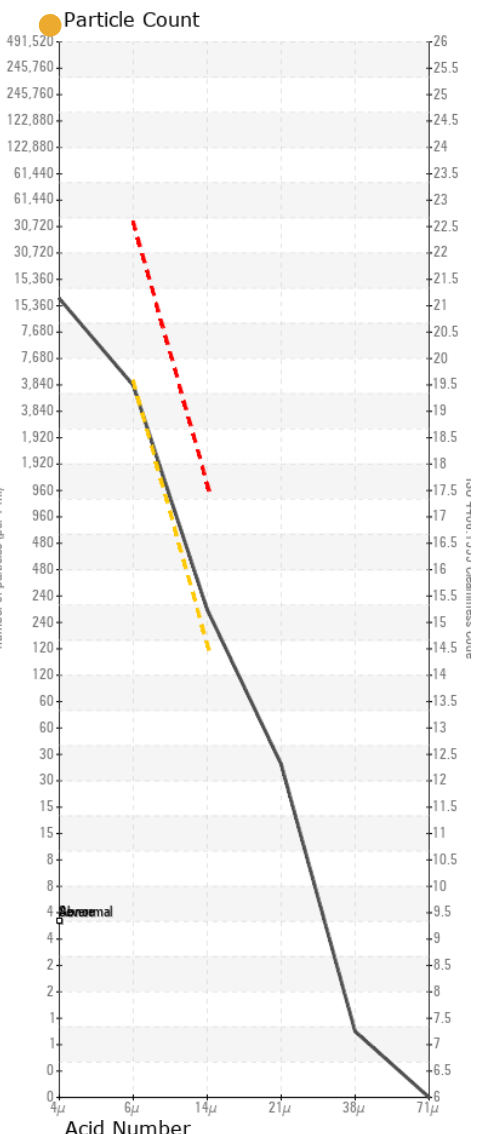
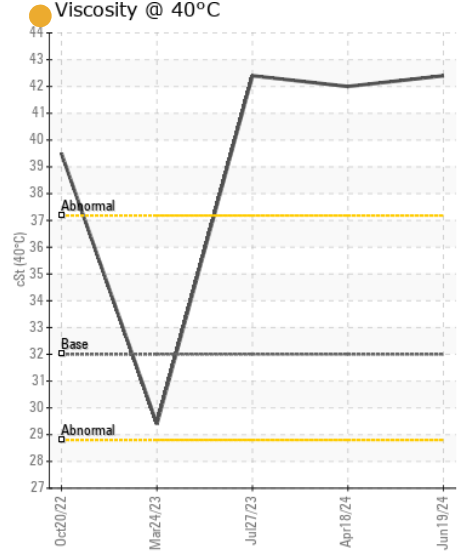
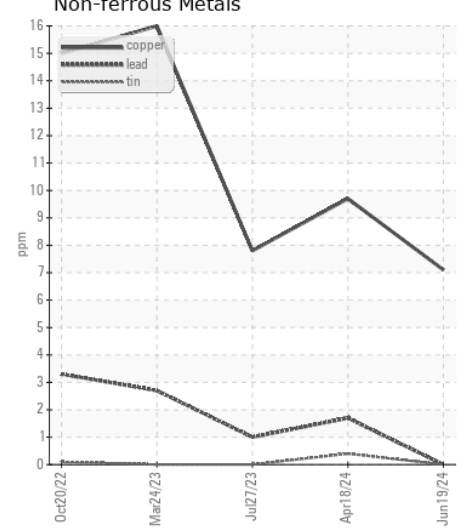
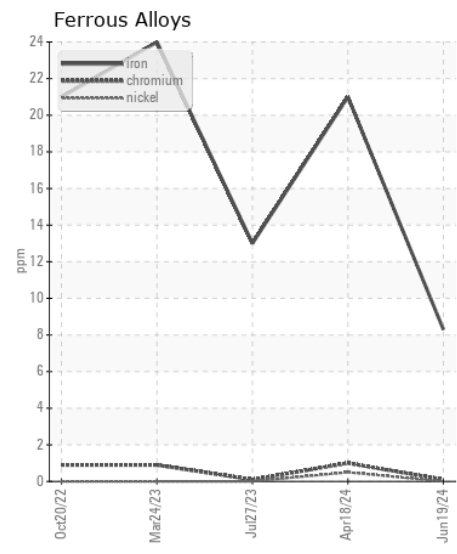
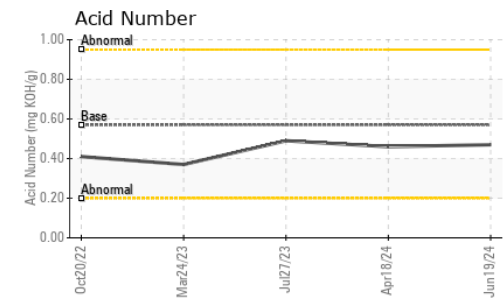
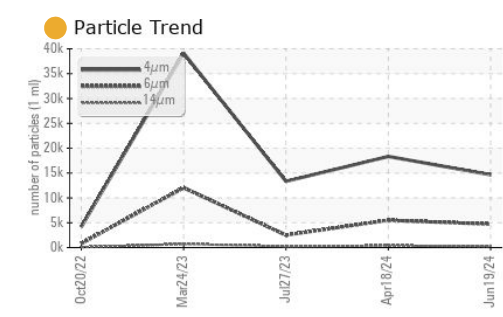
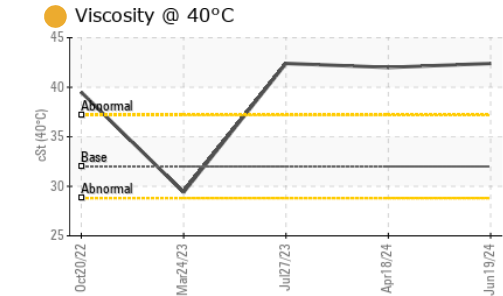
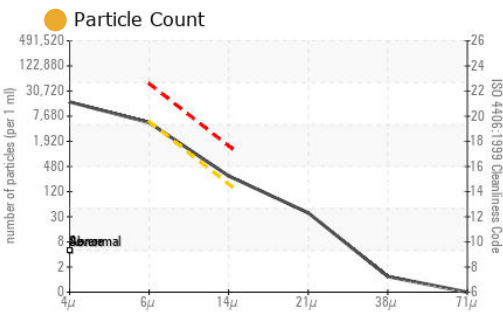
CONTAMINATION

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

FLUID CONDITION

Viscosity of sample indicates oil is within ISO 46 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ASC0002338	ASC0010039	VCP411923
Sample Date		Client Info		19 Jun 2024	18 Apr 2024	27 Jul 2023
Machine Age	hrs	Client Info		9164	8907	7468
Oil Age	hrs	Client Info		2000	1000	0
Filter Age	hrs	Client Info		0	1000	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		N/A	Not Changd	Changed
Sample Status				ATTENTION	ABNORMAL	ATTENTION
Iron	ppm	ASTM D5185m	>50	8	21	13
Chromium	ppm	ASTM D5185m	>20	<1	1	<1
Nickel	ppm	ASTM D5185m	>10	0	<1	0
Titanium	ppm	ASTM D5185m		0	1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	10	13	7
Lead	ppm	ASTM D5185m	>20	0	2	1
Copper	ppm	ASTM D5185m	>150	7	10	8
Tin	ppm	ASTM D5185m	>20	0	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>20	13	18	9
Potassium	ppm	ASTM D5185m	>20	<1	2	<1
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647		14656	18336	13328
Particles >6µm		ASTM D7647	>5000	4704	▲ 5500	2504
Particles >14µm		ASTM D7647	>160	● 250	▲ 390	● 239
Particles >21µm		ASTM D7647	>40	33	▲ 60	● 88
Particles >38µm		ASTM D7647	>10	1	1	10
Particles >71µm		ASTM D7647	>3	0	0	2
Oil Cleanliness		ISO 4406 (c)	>-/19/14	● 21/19/15	▲ 21/20/16	● 21/19/15
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	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
Sodium	ppm	ASTM D5185m		3	1	3
Boron	ppm	ASTM D5185m	5	0	0	0
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	5	0	<1	<1
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	25	2	6	1
Calcium	ppm	ASTM D5185m	200	126	102	96
Phosphorus	ppm	ASTM D5185m	300	377	329	363
Zinc	ppm	ASTM D5185m	370	481	455	455
Sulfur	ppm	ASTM D5185m	2500	2268	2049	2345
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.47	0.46	0.49
Visc @ 40°C	cSt	ASTM D445	32	● 42.4	● 42.0	● 42.4



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ASC0002338
Lab Number : 06219606
Unique Number : 11097803
Test Package : MOBCE
Received : 25 Jun 2024
Tested : 26 Jun 2024
Diagnosed : 26 Jun 2024 - Don Baldrige

HANSON SOUTHEAST
 NC HWY 117
 ERWIN, NC
 US 28339
 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)