



ASCENDUM

OIL ANALYSIS REPORT



Area
[OLDCASTLE]
 Machine Id
VOLVO L70H 623761
 Component
Hydraulic System
 Fluid
AW HYDRAULIC OIL ISO 46 (--- GAL)

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ASC0011119	ASC0008802	ASC0002917
Sample Date		Client Info		11 Jul 2024	07 Mar 2024	08 Nov 2023
Machine Age	hrs	Client Info		10800	10040	9439
Oil Age	hrs	Client Info		2800	2040	0
Filter Age	hrs	Client Info		800	2040	0
Oil Changed		Client Info		Not Chngd	Not Chngd	N/A
Filter Changed		Client Info		Not Chngd	Changed	N/A
Sample Status				ATTENTION	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	19	15	14
Chromium	ppm	ASTM D5185m	>20	3	2	2
Nickel	ppm	ASTM D5185m	>10	0	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	2	3
Lead	ppm	ASTM D5185m	>20	<1	0	1
Copper	ppm	ASTM D5185m	>20	2	2	3
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

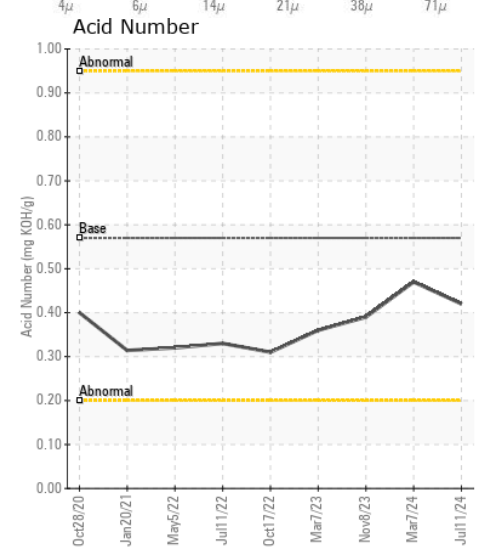
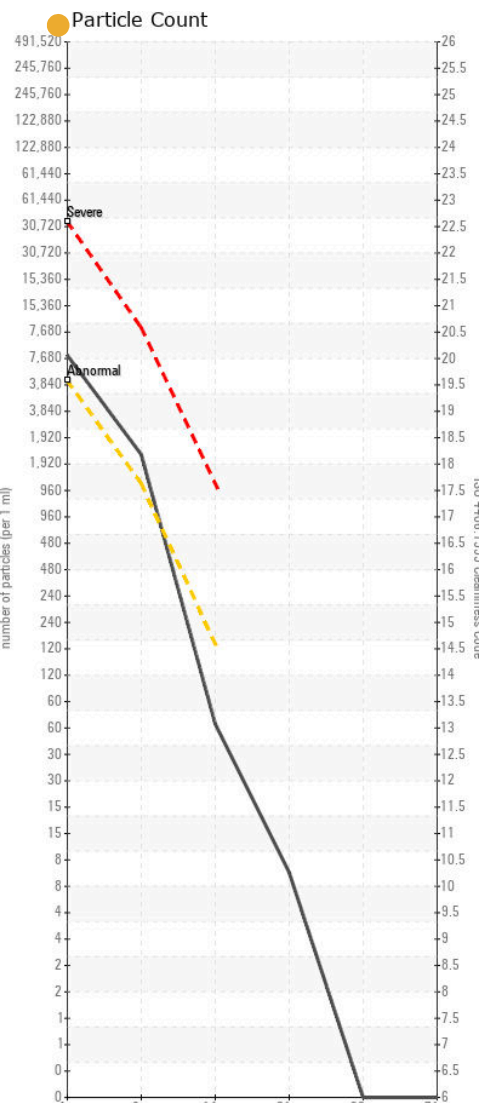
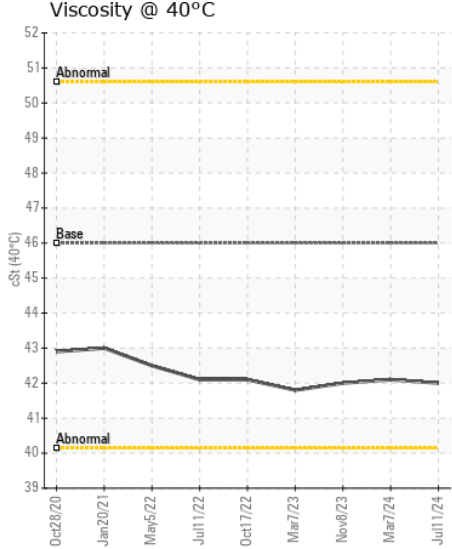
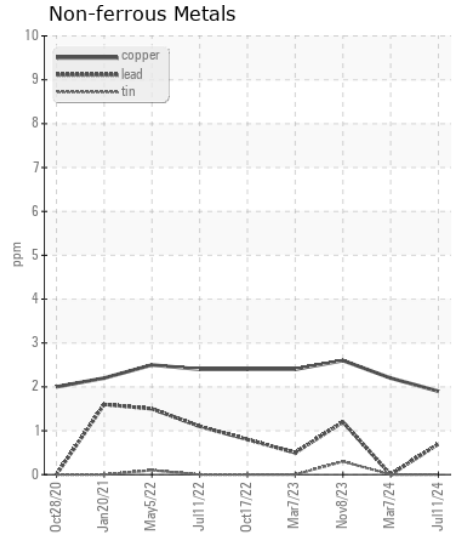
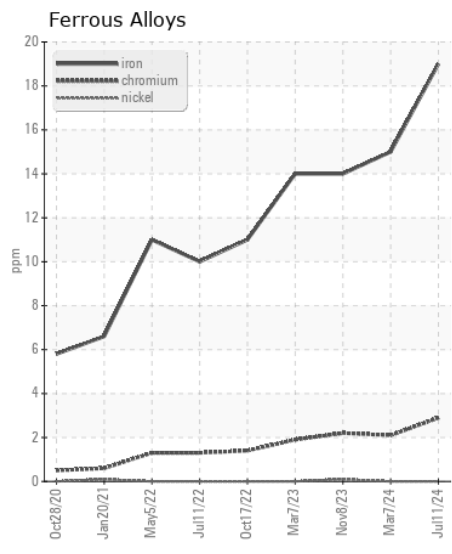
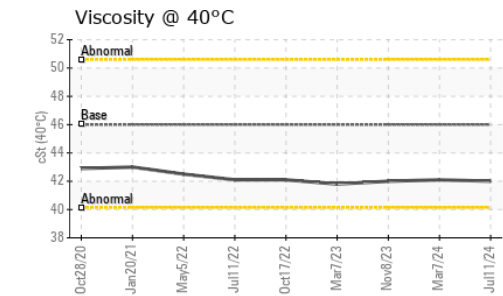
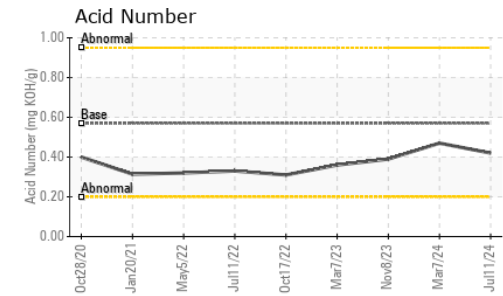
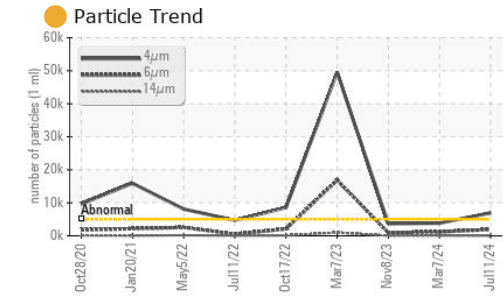
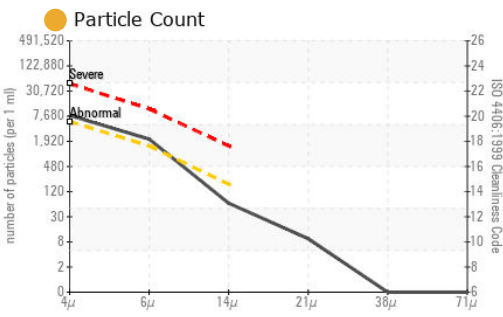
There is a light amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>20	9	7	7
Potassium	ppm	ASTM D5185m	>20	<1	0	2
Water		WC Method	>0.2	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	6975	3831	3662
Particles >6µm		ASTM D7647	>1300	1901	1186	938
Particles >14µm		ASTM D7647	>160	56	90	41
Particles >21µm		ASTM D7647	>40	8	17	7
Particles >38µm		ASTM D7647	>10	0	2	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	20/18/13	19/17/14	19/17/13
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	>0.2	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		5	5	5
Boron	ppm	ASTM D5185m	5	0	0	0
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	5	0	0	0
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m	25	3	0	1
Calcium	ppm	ASTM D5185m	200	102	80	83
Phosphorus	ppm	ASTM D5185m	300	373	282	336
Zinc	ppm	ASTM D5185m	370	455	370	443
Sulfur	ppm	ASTM D5185m	2500	2341	1889	1970
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.42	0.47	0.39
Visc @ 40°C	cSt	ASTM D445	46	42.0	42.1	42.0



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ASC0011119 **Received** : 16 Jul 2024
Lab Number : 06237684 **Tested** : 17 Jul 2024
Unique Number : 11126518 **Diagnosed** : 17 Jul 2024 - Wes Davis
Test Package : CONST

113 - ASCENDUM MACHINERY INC - GARNER
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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)