



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL



Area
[W02008504]
Machine Id
VOLVO L70H 624729
Component
Hydraulic System
Fluid
AW HYDRAULIC OIL ISO 46 (25 GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: W02008504)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ML0001100	ML0001055	---
Sample Date		Client Info		01 Jul 2024	07 May 2024	---
Machine Age	hrs	Client Info		3922	3578	---
Oil Age	hrs	Client Info		344	2000	---
Filter Age	hrs	Client Info		0	2000	---
Oil Changed		Client Info		N/A	Changed	---
Filter Changed		Client Info		N/A	Changed	---
Sample Status				ATTENTION	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<1	4	---
Chromium	ppm	ASTM D5185m	>20	0	<1	---
Nickel	ppm	ASTM D5185m	>10	<1	0	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>20	<1	1	---
Lead	ppm	ASTM D5185m	>20	0	<1	---
Copper	ppm	ASTM D5185m	>150	0	1	---
Tin	ppm	ASTM D5185m	>20	0	<1	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

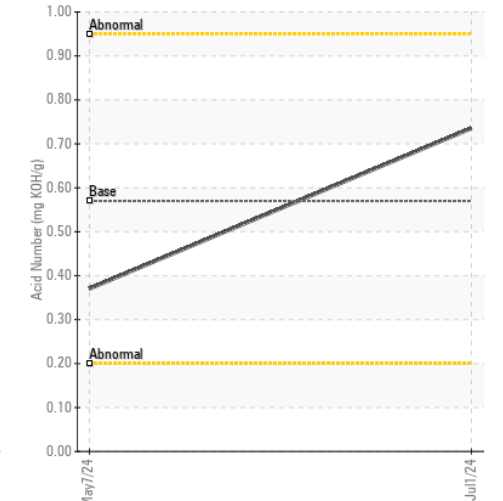
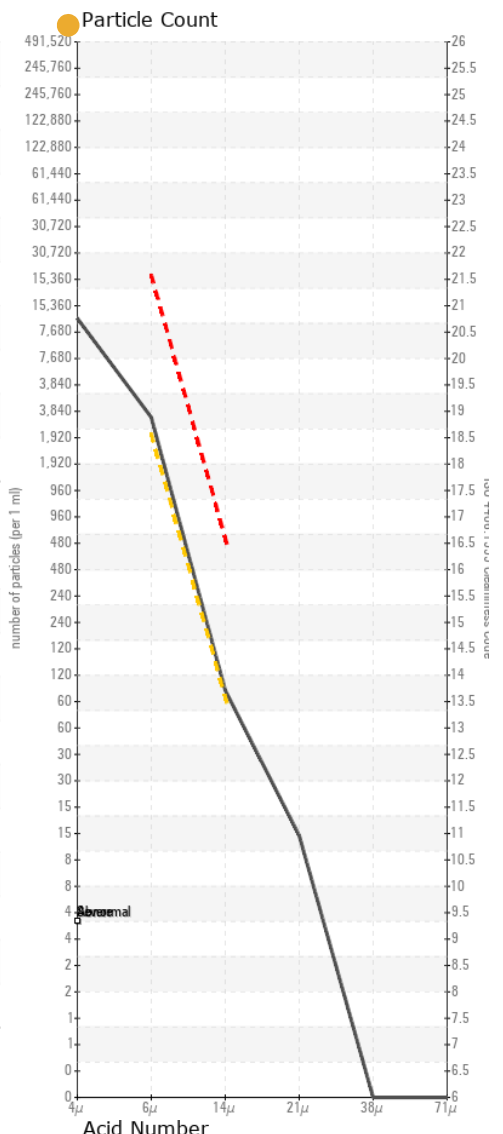
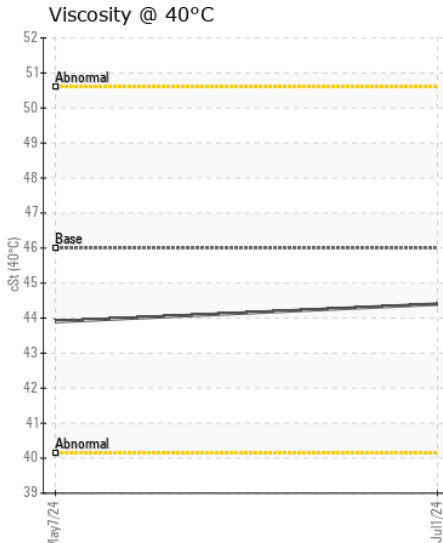
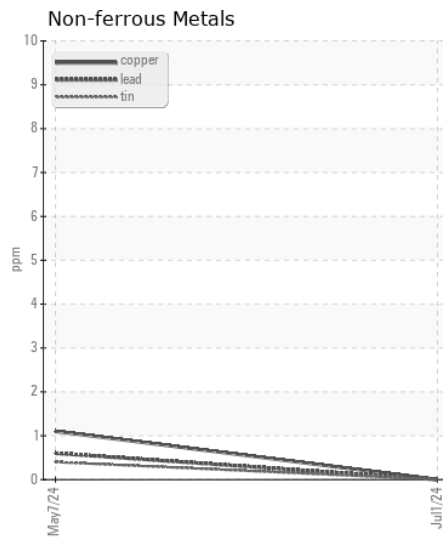
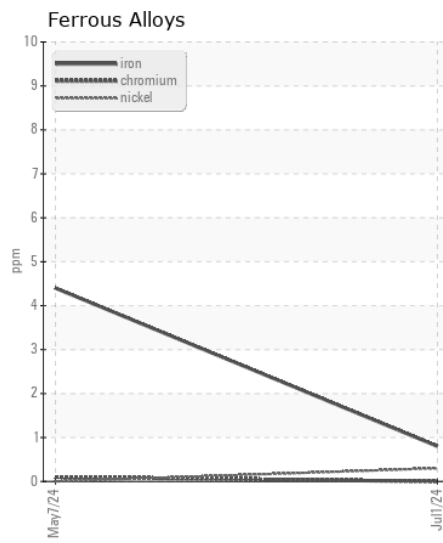
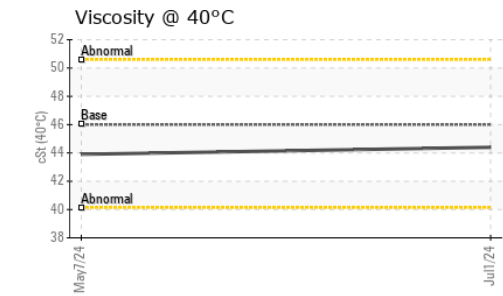
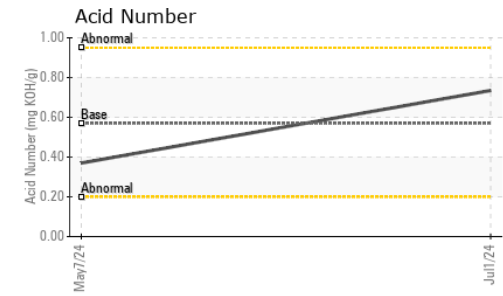
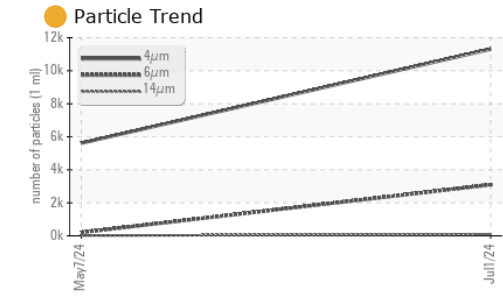
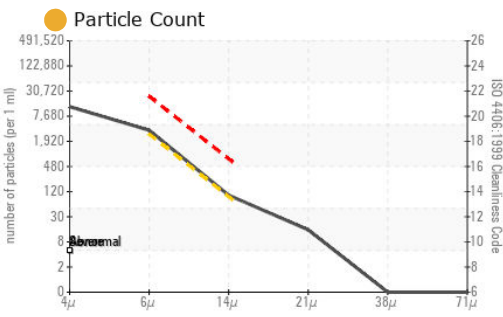
There is a moderate amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>20	4	6	---
Potassium	ppm	ASTM D5185m	>20	<1	0	---
Water		WC Method	>0.1	NEG	NEG	---
Particles >4µm		ASTM D7647		11308	5613	---
Particles >6µm		ASTM D7647	>2500	3093	203	---
Particles >14µm		ASTM D7647	>80	87	14	---
Particles >21µm		ASTM D7647	>20	13	2	---
Particles >38µm		ASTM D7647	>4	0	0	---
Particles >71µm		ASTM D7647	>3	0	0	---
Oil Cleanliness		ISO 4406 (c)	>-/18/13	21/19/14	20/15/11	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	---

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oils additive package is suitable for further service.

Sodium	ppm	ASTM D5185m		2	<1	---
Boron	ppm	ASTM D5185m	5	9	22	---
Barium	ppm	ASTM D5185m	5	0	<1	---
Molybdenum	ppm	ASTM D5185m	5	0	<1	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m	25	8	12	---
Calcium	ppm	ASTM D5185m	200	305	672	---
Phosphorus	ppm	ASTM D5185m	300	411	477	---
Zinc	ppm	ASTM D5185m	370	518	606	---
Sulfur	ppm	ASTM D5185m	2500	3082	3475	---
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.735	0.37	---
Visc @ 40°C	cSt	ASTM D445	46	44.4	43.9	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ML0001100 **Received** : 02 Jul 2024
Lab Number : 06226750 **Tested** : 03 Jul 2024
Unique Number : 11110243 **Diagnosed** : 05 Jul 2024 - Doug Bogart
Test Package : CONST

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)

WILLIAM HAZEL
 PO BOX 600
 CHANTILLY, VA
 US 20153
 Contact: SERVICE MANAGER
 jimmy_elswick@wahazel.com
 T: (703)378-8300
 F: