



OIL ANALYSIS REPORT



Area
[W02008368]
 Machine Id
VOLVO L70H 622567
 Component
Hydraulic System
 Fluid
{not provided} (25 GAL)

Sample Rating Trend



DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. (Customer Sample Comment: W02008368)

Wear

All component wear rates are normal.

Contamination

Elemental level of silicon (Si) above normal indicating ingress of seal material. The amount and size of particulates present in the system are acceptable.

Fluid Condition

The AN level is acceptable for this fluid.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	ML0002504	---	---
Sample Date	Client Info	06 Jun 2024	---	---
Machine Age	hrs Client Info	9973	---	---
Oil Age	hrs Client Info	2000	---	---
Oil Changed	Client Info	Changed	---	---
Sample Status		ABNORMAL	---	---

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.1	NEG	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm	ASTM D5185m >50	2	---	---
Chromium ppm	ASTM D5185m >20	0	---	---
Nickel ppm	ASTM D5185m >10	0	---	---
Titanium ppm	ASTM D5185m	<1	---	---
Silver ppm	ASTM D5185m	0	---	---
Aluminum ppm	ASTM D5185m >20	2	---	---
Lead ppm	ASTM D5185m >20	2	---	---
Copper ppm	ASTM D5185m >150	4	---	---
Tin ppm	ASTM D5185m >20	<1	---	---
Vanadium ppm	ASTM D5185m	0	---	---
Cadmium ppm	ASTM D5185m	0	---	---

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm	ASTM D5185m	105	---	---
Barium ppm	ASTM D5185m	<1	---	---
Molybdenum ppm	ASTM D5185m	1	---	---
Manganese ppm	ASTM D5185m	<1	---	---
Magnesium ppm	ASTM D5185m	32	---	---
Calcium ppm	ASTM D5185m	2861	---	---
Phosphorus ppm	ASTM D5185m	1020	---	---
Zinc ppm	ASTM D5185m	1267	---	---
Sulfur ppm	ASTM D5185m	8372	---	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185m >20	▲ 29	---	---
Sodium ppm	ASTM D5185m	8	---	---
Potassium ppm	ASTM D5185m >20	3	---	---

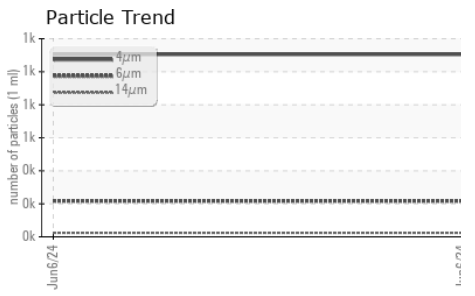
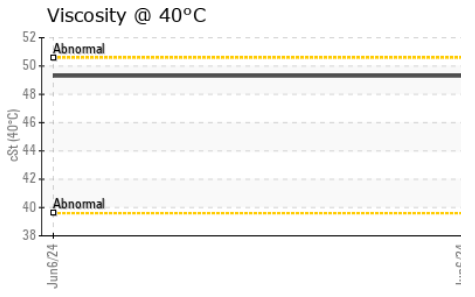
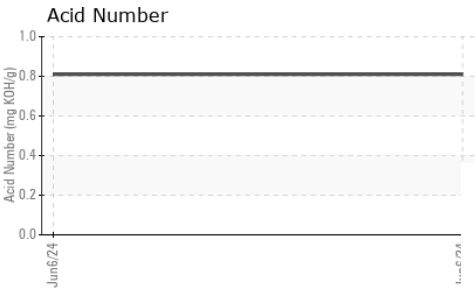
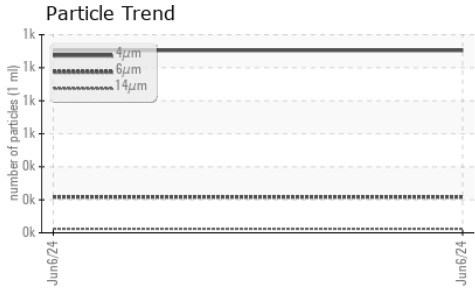
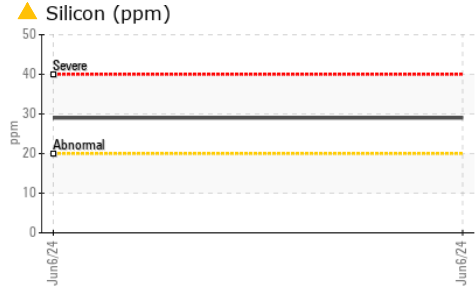
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	1105	---	---
Particles >6µm	ASTM D7647 >2500	217	---	---
Particles >14µm	ASTM D7647 >80	24	---	---
Particles >21µm	ASTM D7647 >20	6	---	---
Particles >38µm	ASTM D7647 >4	0	---	---
Particles >71µm	ASTM D7647 >3	0	---	---
Oil Cleanliness	ISO 4406 (c) >--/18/13	17/15/12	---	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g	ASTM D8045	0.81	---	---

OIL ANALYSIS REPORT



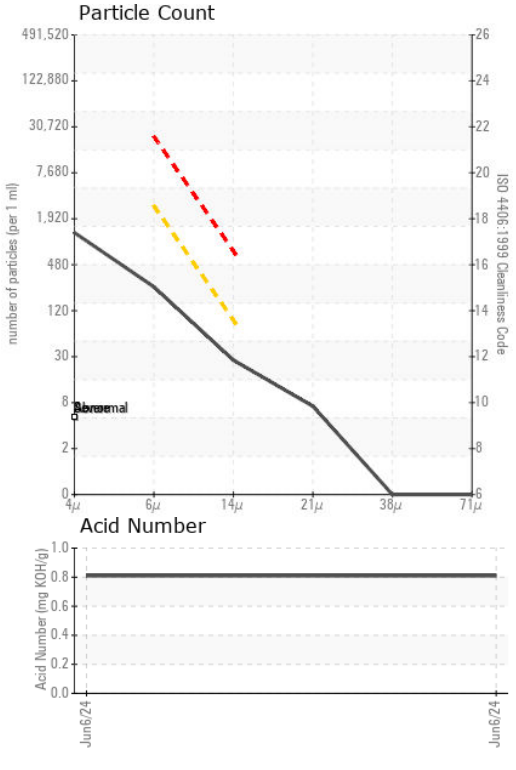
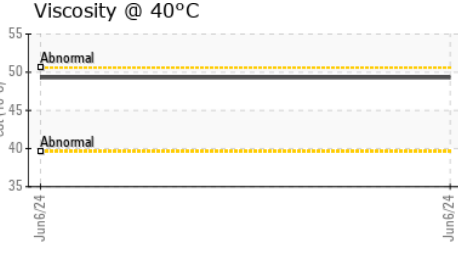
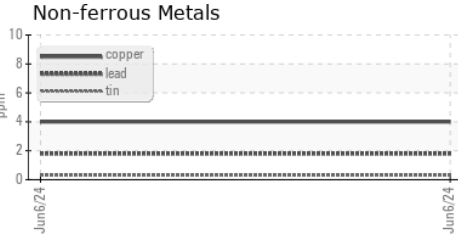
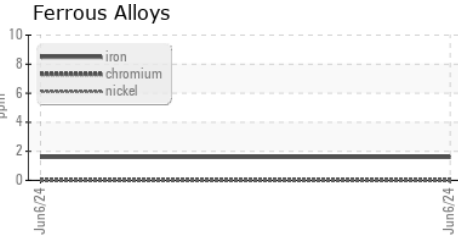
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Precipitate	scalar	*Visual	NONE	NONE	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.1	NEG	---	---
Free Water	scalar	*Visual		NEG	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	49.3	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
---------------	--------	------------	---------	----------	----------

Color				no image	no image
Bottom				no image	no image

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ML0002504 **Received** : 10 Jun 2024
Lab Number : 06204536 **Tested** : 12 Jun 2024
Unique Number : 11071997 **Diagnosed** : 12 Jun 2024 - Angela Borella
Test Package : CONST

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

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)