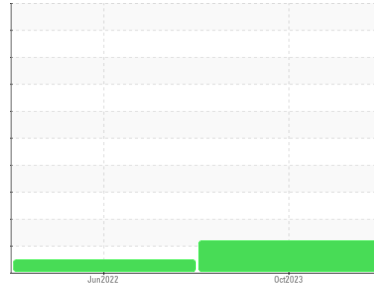




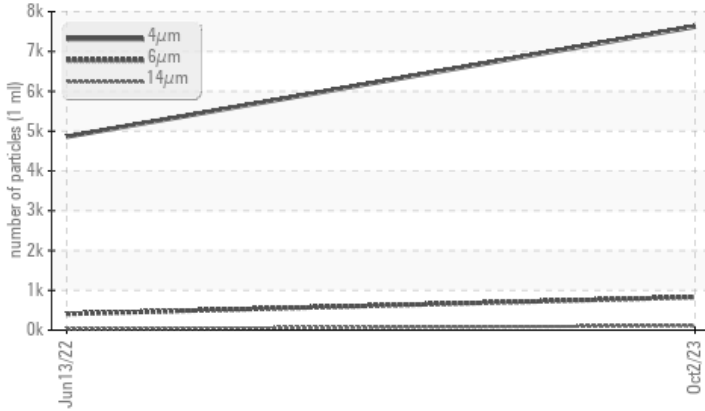
Area
Ascendum Machinery
 Machine Id
VOLVO L70H 623725
 Component
Hydraulic System
 Fluid
VOLVO SUPER HYDRAULIC OIL 46 (24 GAL)

Sample Rating Trend



COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status			ATTENTION	NORMAL	---
Particles >14µm	ASTM D7647	>80	▲ 110	31	---
Particles >21µm	ASTM D7647	>20	▲ 40	9	---
Oil Cleanliness	ISO 4406 (c)	>--/18/13	▲ 20/17/14	19/16/12	---

Customer Id: NOVCHANC
 Sample No.: ASC0001390
 Lab Number: 05967711
 Test Package: MOBCE



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Wes Davis +1 905-569-8600 x223
wesd@wearcheck.ca

To change component or sample information:
 Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

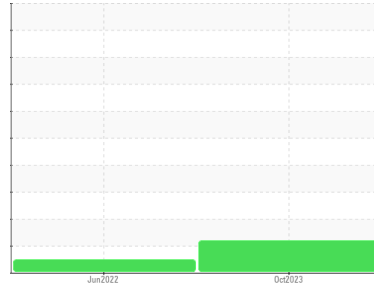
RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS



Area
Ascendum Machinery
 Machine Id
VOLVO L70H 623725
 Component
Hydraulic System
 Fluid
VOLVO SUPER HYDRAULIC OIL 46 (24 GAL)



DIAGNOSIS

Recommendation

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

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

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		ASC0001390	VCP0000566	---
Sample Date	Client Info		02 Oct 2023	13 Jun 2022	---
Machine Age	hrs	Client Info	5924	3437	---
Oil Age	hrs	Client Info	2487	3437	---
Oil Changed	Client Info		Not Chngd	Changed	---
Sample Status			ATTENTION	NORMAL	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	6	7	---
Chromium	ppm	ASTM D5185m >20	1	2	---
Nickel	ppm	ASTM D5185m >10	0	0	---
Titanium	ppm	ASTM D5185m	0	0	---
Silver	ppm	ASTM D5185m	0	0	---
Aluminum	ppm	ASTM D5185m >20	0	<1	---
Lead	ppm	ASTM D5185m >20	<1	1	---
Copper	ppm	ASTM D5185m >150	1	2	---
Tin	ppm	ASTM D5185m >20	0	<1	---
Vanadium	ppm	ASTM D5185m	0	0	---
Cadmium	ppm	ASTM D5185m	0	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 14	0	0	---
Barium	ppm	ASTM D5185m 0.0	0	0	---
Molybdenum	ppm	ASTM D5185m 0.0	<1	<1	---
Manganese	ppm	ASTM D5185m 0.0	0	<1	---
Magnesium	ppm	ASTM D5185m 2.6	31	2	---
Calcium	ppm	ASTM D5185m 49	69	67	---
Phosphorus	ppm	ASTM D5185m 354	299	353	---
Zinc	ppm	ASTM D5185m 419	391	437	---
Sulfur	ppm	ASTM D5185m 3719	1687	2284	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	3	4	---
Sodium	ppm	ASTM D5185m	<1	3	---
Potassium	ppm	ASTM D5185m >20	1	0	---

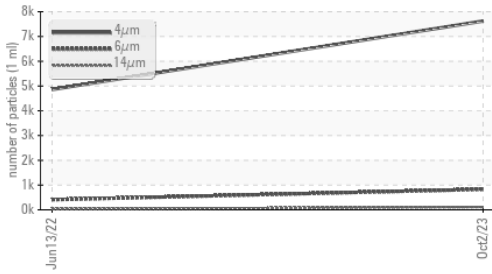
FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		7623	4858	---
Particles >6µm	ASTM D7647	>2500	828	408	---
Particles >14µm	ASTM D7647	>80	▲ 110	31	---
Particles >21µm	ASTM D7647	>20	▲ 40	9	---
Particles >38µm	ASTM D7647	>4	1	1	---
Particles >71µm	ASTM D7647	>3	0	0	---
Oil Cleanliness	ISO 4406 (c)	>--/18/13	▲ 20/17/14	19/16/12	---

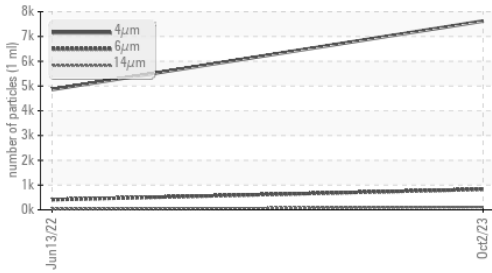
FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.40	0.32	---

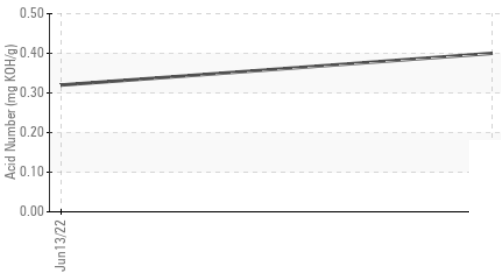
▲ Particle Trend



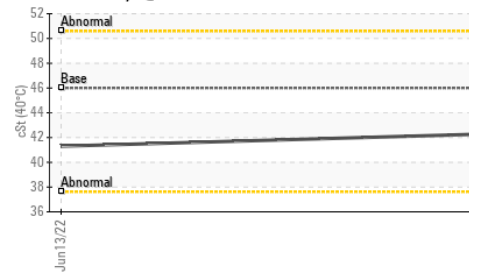
▲ Particle Trend



Acid Number



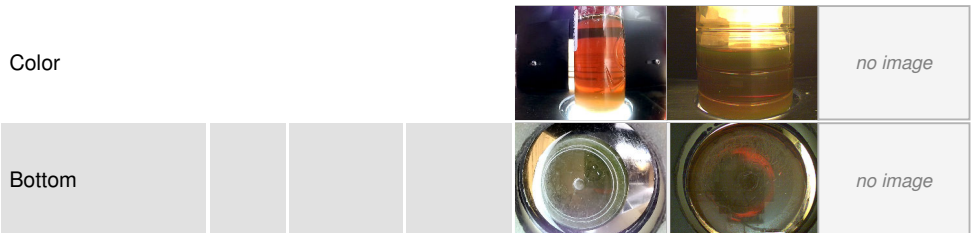
Viscosity @ 40°C



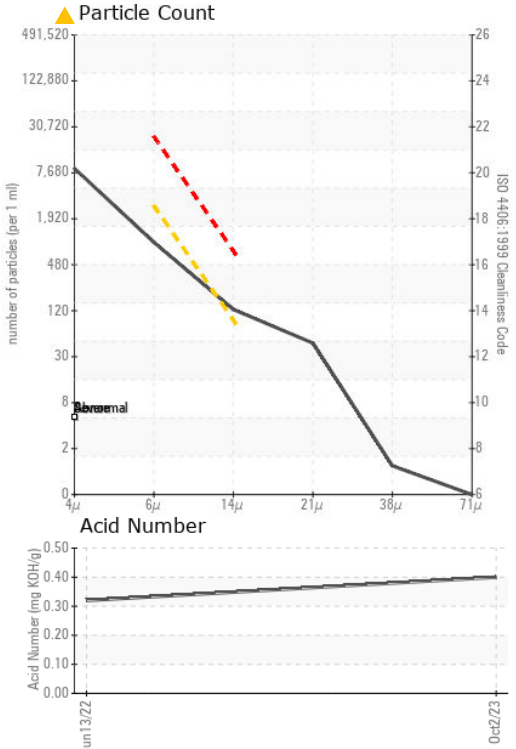
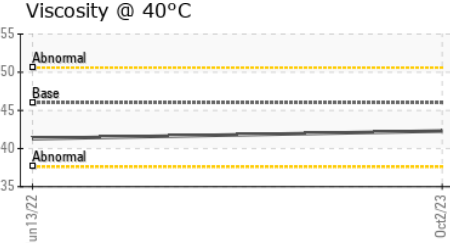
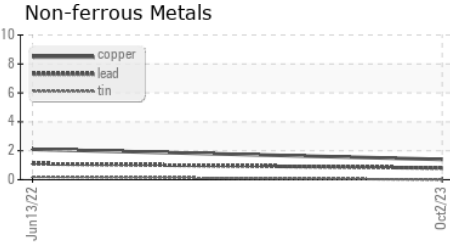
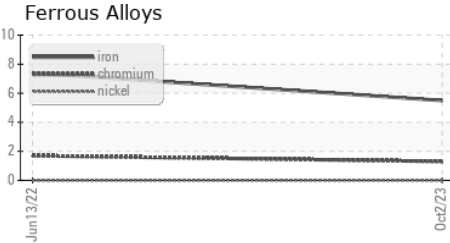
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*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 46	42.3	41.3	---

SAMPLE IMAGES



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : ASC0001390 Received : 03 Oct 2023
 Lab Number : 05967711 Diagnosed : 04 Oct 2023
 Unique Number : 10674262 Diagnostician : Wes Davis
 Test Package : MOBCE

EGGER TIMBERPAK
 1801 COTTONWOOD ST
 CHARLOTTE, NC
 US 28206
 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)