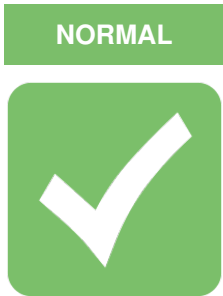
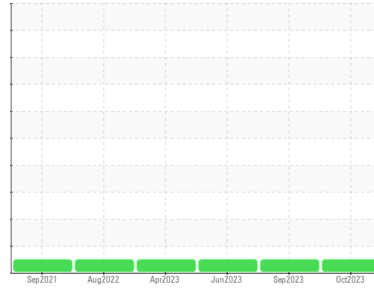




Area
Ascendum Machinery
 Machine Id
VOLVO L180H 14 (S/N 5269)
 Component
Hydraulic System
 Fluid
VOLVO SUPER HYDRAULIC OIL 46 (--- GAL)

Sample Rating Trend



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

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		ASC0005391	ASC0000732	ASC0000198
Sample Date	Client Info		26 Oct 2023	25 Sep 2023	15 Jun 2023
Machine Age	hrs	Client Info	13517	13007	12056
Oil Age	hrs	Client Info	12566	951	8564
Oil Changed	Client Info		Not Chngd	Not Chngd	Changed
Sample Status			NORMAL	NORMAL	NORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	5	5	5
Chromium	ppm	ASTM D5185m >20	2	2	2
Nickel	ppm	ASTM D5185m >10	<1	0	0
Titanium	ppm	ASTM D5185m	<1	<1	0
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >20	1	<1	0
Lead	ppm	ASTM D5185m >20	<1	0	<1
Copper	ppm	ASTM D5185m >150	2	3	3
Tin	ppm	ASTM D5185m >20	0	0	0
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 14	0	0	0
Barium	ppm	ASTM D5185m 0.0	0	0	2
Molybdenum	ppm	ASTM D5185m 0.0	<1	<1	<1
Manganese	ppm	ASTM D5185m 0.0	0	<1	0
Magnesium	ppm	ASTM D5185m 2.6	18	14	23
Calcium	ppm	ASTM D5185m 49	49	49	48
Phosphorus	ppm	ASTM D5185m 354	319	329	309
Zinc	ppm	ASTM D5185m 419	388	393	401
Sulfur	ppm	ASTM D5185m 3719	1559	1639	1783

CONTAMINANTS

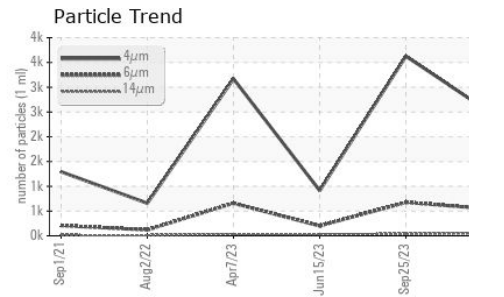
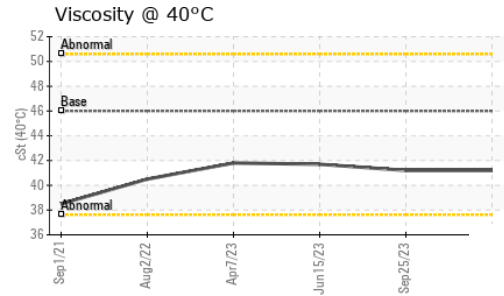
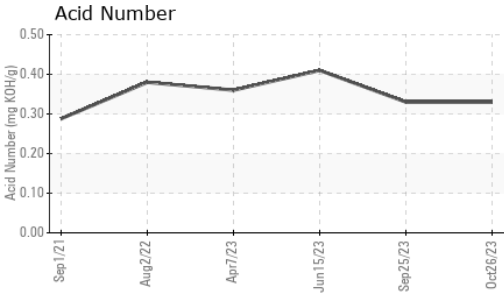
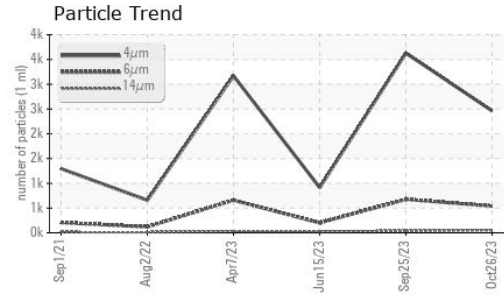
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	2	2	1
Sodium	ppm	ASTM D5185m	2	4	<1
Potassium	ppm	ASTM D5185m >20	1	0	2

FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		2463	3628	913
Particles >6µm	ASTM D7647	>2500	539	676	202
Particles >14µm	ASTM D7647	>80	53	38	30
Particles >21µm	ASTM D7647	>20	15	10	13
Particles >38µm	ASTM D7647	>4	0	1	1
Particles >71µm	ASTM D7647	>3	0	0	0
Oil Cleanliness	ISO 4406 (c)	>--/18/13	18/16/13	19/17/12	17/15/12

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.33	0.33	0.41

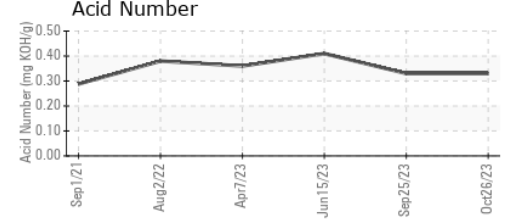
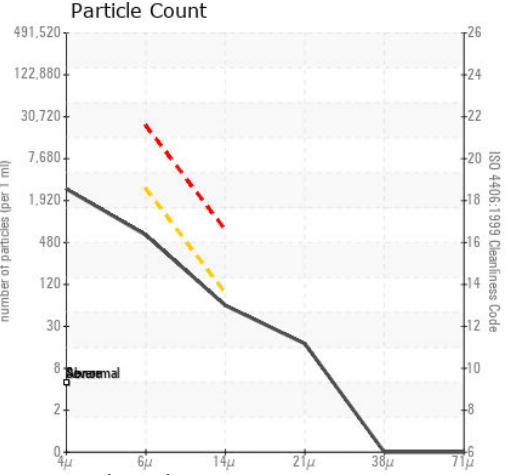
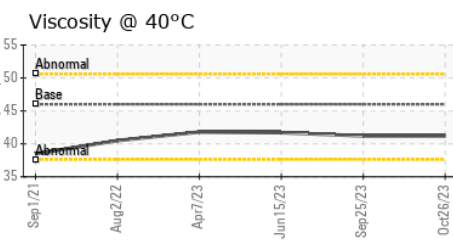
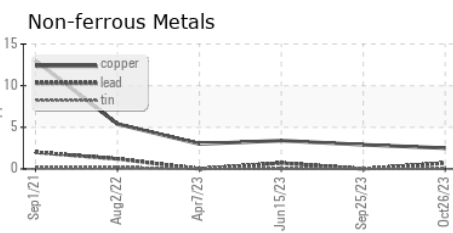
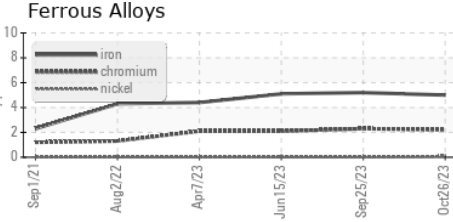


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 46	41.2	41.2	41.7

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : ASC0005391 Received : 14 Nov 2023
 Lab Number : 06006968 Diagnosed : 15 Nov 2023
 Unique Number : 10740730 Diagnostician : Wes Davis
 Test Package : CONST

EGGER WOOD PRODUCTS
 300 EGGER PARKWAY
 LINWOOD, NC
 US 27299
 Contact: HELMUT THOMAY
 helmut.thomay@egger.com
 T:
 F:

Certificate L2367
 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)