



ASCENDUM

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area

Ascendum Machinery

Machine Id

VOLVO L180H 15 (S/N 5263)

Component

Hydraulic System

Fluid

VOLVO SUPER HYDRAULIC OIL 46 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ASC0007490	ASC0007550	ASC0001987
Sample Date		Client Info		15 Apr 2024	07 Mar 2024	02 Jan 2024
Machine Age	hrs	Client Info		12150	11526	10502
Oil Age	hrs	Client Info		8639	9039	8506
Filter Age	hrs	Client Info		0	9039	0
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Filter Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				NORMAL	ATTENTION	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	6	<1	1
Chromium	ppm	ASTM D5185m	>20	2	2	<1
Nickel	ppm	ASTM D5185m	>10	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	0	2
Lead	ppm	ASTM D5185m	>20	<1	0	<1
Copper	ppm	ASTM D5185m	>150	2	2	<1
Tin	ppm	ASTM D5185m	>20	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

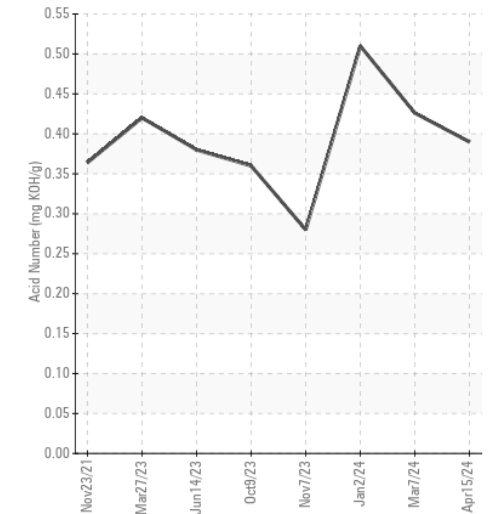
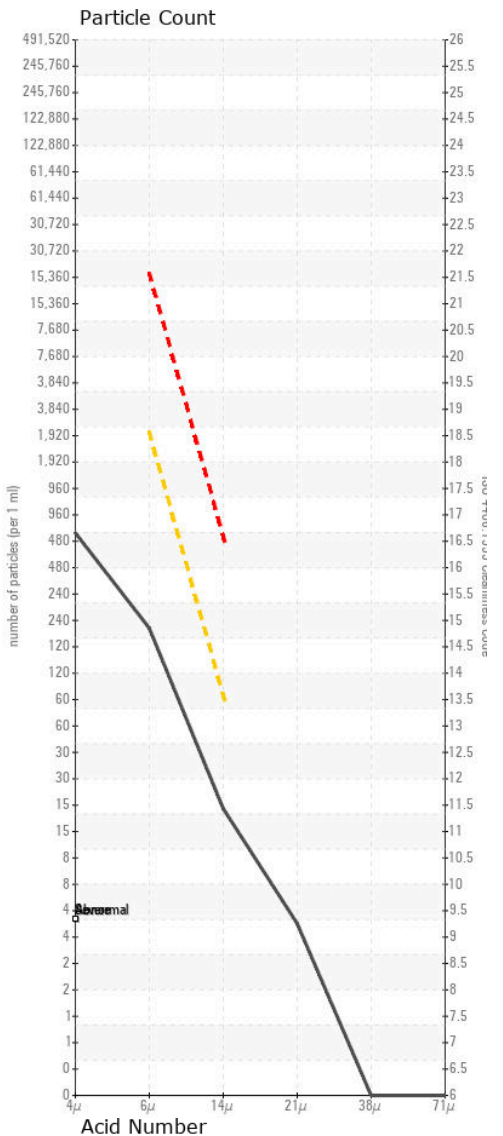
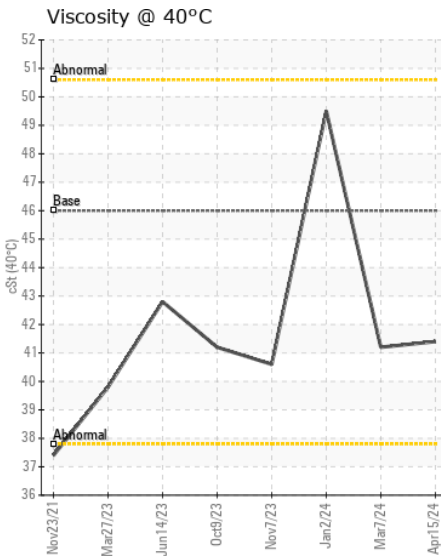
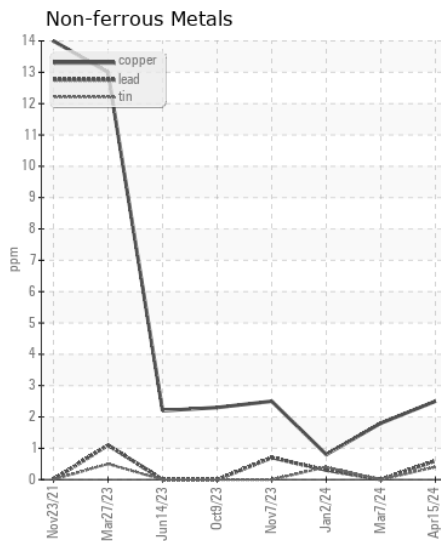
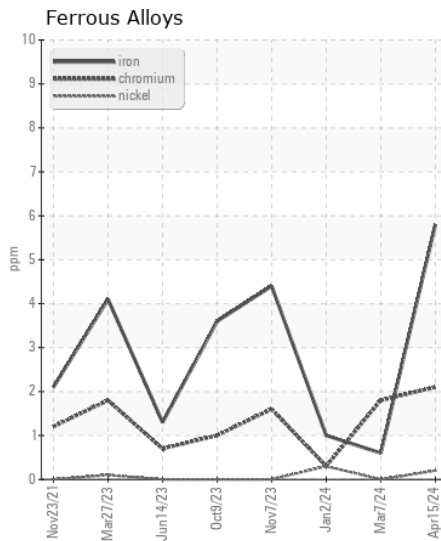
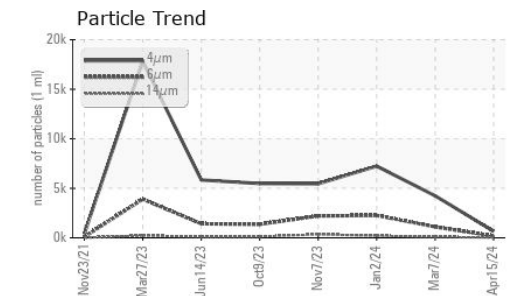
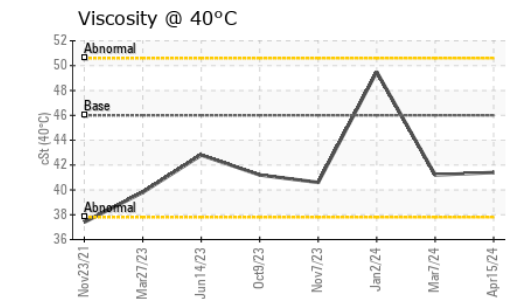
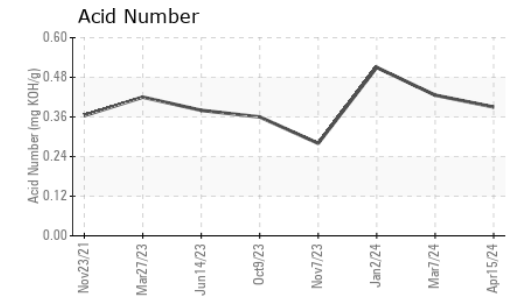
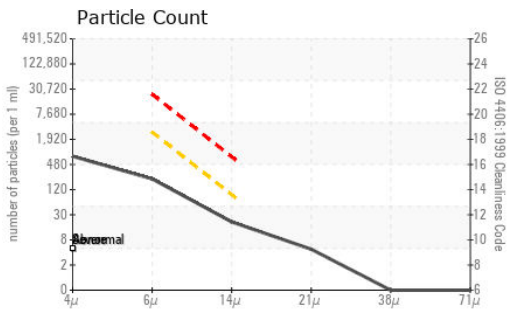
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185m	>20	2	1	2
Potassium	ppm	ASTM D5185m	>20	2	<1	1
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647		664	4245	7237
Particles >6µm		ASTM D7647	>2500	191	1105	2257
Particles >14µm		ASTM D7647	>80	18	89	206
Particles >21µm		ASTM D7647	>20	4	20	70
Particles >38µm		ASTM D7647	>4	0	1	6
Particles >71µm		ASTM D7647	>3	0	0	1
Oil Cleanliness		ISO 4406 (c)	>-/18/13	17/15/11	19/17/14	20/18/15
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	>0.1	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		2	3	0
Boron	ppm	ASTM D5185m	14	0	0	32
Barium	ppm	ASTM D5185m	0.0	0	0	10
Molybdenum	ppm	ASTM D5185m	0.0	<1	0	2
Manganese	ppm	ASTM D5185m	0.0	0	0	0
Magnesium	ppm	ASTM D5185m	2.6	11	0	13
Calcium	ppm	ASTM D5185m	49	61	49	969
Phosphorus	ppm	ASTM D5185m	354	301	337	579
Zinc	ppm	ASTM D5185m	419	413	401	681
Sulfur	ppm	ASTM D5185m	3719	1970	2918	2574
Acid Number (AN)	mg KOH/g	ASTM D8045		0.39	0.426	0.51
Visc @ 40°C	cSt	ASTM D445	46	41.4	41.2	49.5



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ASC0007490
Lab Number : 06157625
Unique Number : 10993048
Test Package : CONST

Received : 23 Apr 2024
Tested : 24 Apr 2024
Diagnosed : 24 Apr 2024 - Wes Davis

EGGER WOOD PRODUCTS
 300 EGGER PARKWAY
 LINWOOD, NC
 US 27299

Contact: HELMUT THOMAY
 helmut.thomay@egger.com

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)

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