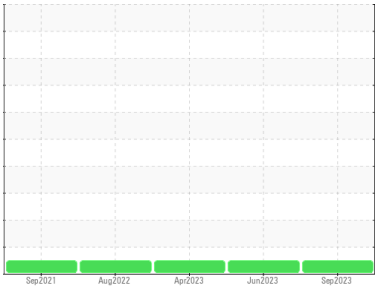
ASCENDUM

OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

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

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		**ASC0000732**	ASC0000198	VCP0006667
Sample Date		Client Info		**25 Sep 2023**	15 Jun 2023	07 Apr 2023
Machine Age	hrs	Client Info		**13007**	12056	11033
Oil Age	hrs	Client Info		**951**	8564	3020
Oil Changed		Client Info		**Not Changd**	Changed	Not Changd
Sample Status				**NORMAL**	NORMAL	NORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	**5**	5	4
Chromium	ppm	ASTM D5185m	>20	**2**	2	2
Nickel	ppm	ASTM D5185m	>10	**0**	0	0
Titanium	ppm	ASTM D5185m		**<1**	0	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>20	**<1**	0	0
Lead	ppm	ASTM D5185m	>20	**0**	<1	0
Copper	ppm	ASTM D5185m	>150	**3**	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**	2	0
Molybdenum	ppm	ASTM D5185m	0.0	**<1**	<1	<1
Manganese	ppm	ASTM D5185m	0.0	**<1**	0	<1
Magnesium	ppm	ASTM D5185m	2.6	**14**	23	28
Calcium	ppm	ASTM D5185m	49	**49**	48	45
Phosphorus	ppm	ASTM D5185m	354	**329**	309	323
Zinc	ppm	ASTM D5185m	419	**393**	401	391
Sulfur	ppm	ASTM D5185m	3719	**1639**	1783	1722

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

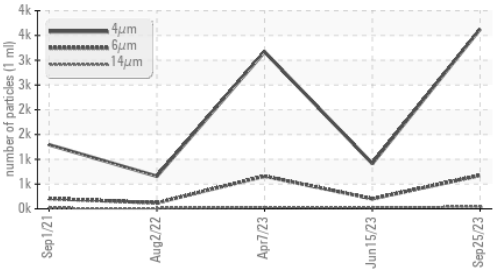
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		**3628**	913	3169
Particles >6µm		ASTM D7647	>2500	**676**	202	659
Particles >14µm		ASTM D7647	>80	**38**	30	32
Particles >21µm		ASTM D7647	>20	**10**	13	8
Particles >38µm		ASTM D7647	>4	**1**	1	1
Particles >71µm		ASTM D7647	>3	**0**	0	0
Oil Cleanliness		ISO 4406 (c)	>--/18/13	**19/17/12**	17/15/12	19/17/12

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.33**	0.41	0.36

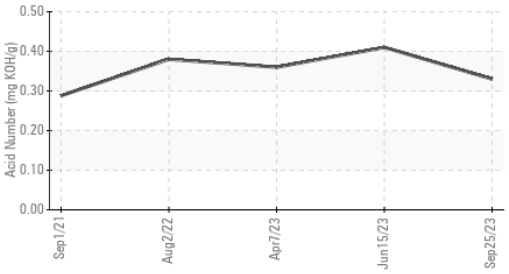
ASCENDUM

OIL ANALYSIS REPORT

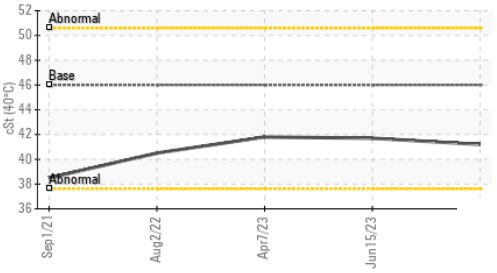
Particle Trend



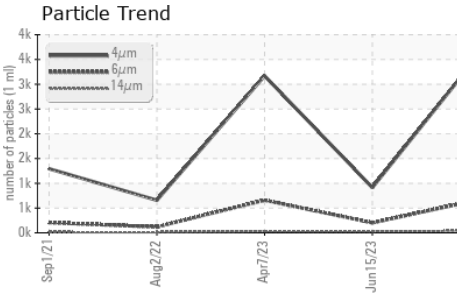
Acid Number



Viscosity @ 40°C



Particle Trend



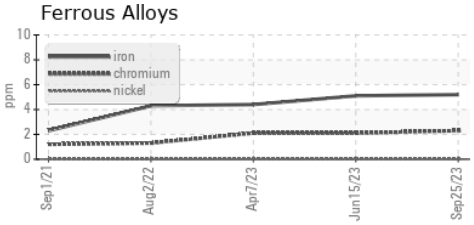
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	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
Free Water	scalar	*Visual		**NEG**	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	**41.2**	41.7	41.8

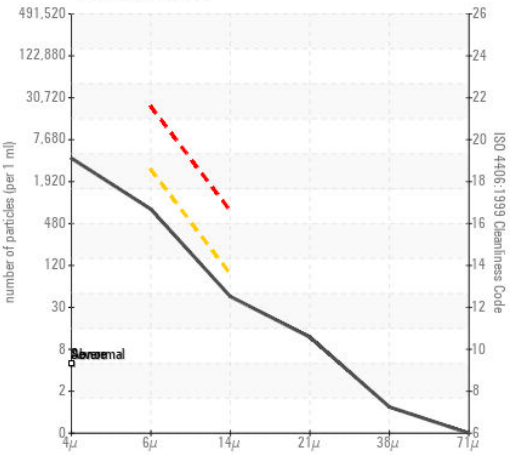
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

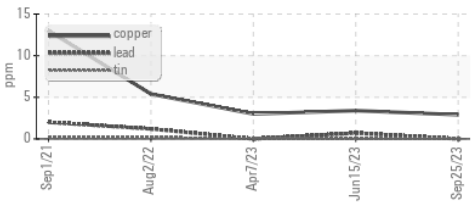
Ferrous Alloys



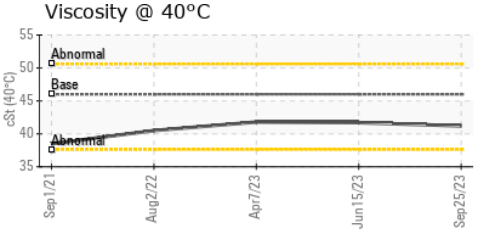
Particle Count



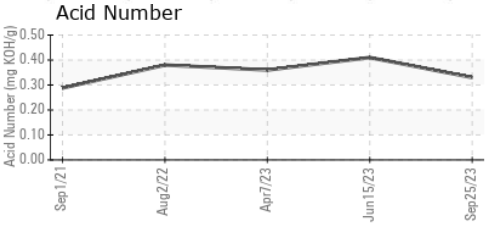
Non-ferrous Metals



Viscosity @ 40°C



Acid Number



ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ASC0000732
Lab Number : 05963513
Unique Number : 10670064
Test Package : MOBCE

Received : 28 Sep 2023
Diagnosed : 29 Sep 2023
Diagnostician : Wes Davis

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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Report Id: EGGLIN [WUSCAR] 05963513 (Generated: 09/29/2023 10:16:14) Rev: 1

Submitted By: SONNY POPE