



ASCENDUM

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL



Area
Blythe Construction CSA - Charlotte
Machine Id
VOLVO L60H 3105150 (S/N L60HV622158)
Component
Hydraulic System
Fluid
VOLVO SUPER HYDRAULIC OIL 46 (--- GAL)

RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ASC0001875	VCP0006623	VCP0007243
Sample Date		Client Info		13 Dec 2023	13 Jul 2023	13 Feb 2023
Machine Age	hrs	Client Info		3443	3013	2485
Oil Age	hrs	Client Info		3443	3013	2485
Filter Age	hrs	Client Info		0	1001	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ATTENTION	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	3	4	4
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	<1	0
Lead	ppm	ASTM D5185m	>20	2	1	2
Copper	ppm	ASTM D5185m	>150	2	2	2
Tin	ppm	ASTM D5185m	>20	0	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

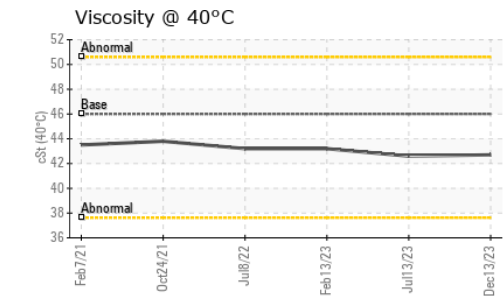
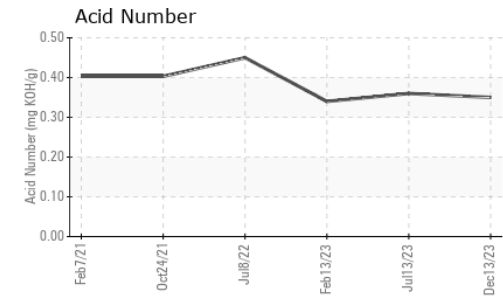
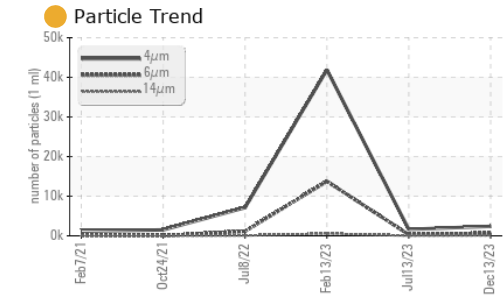
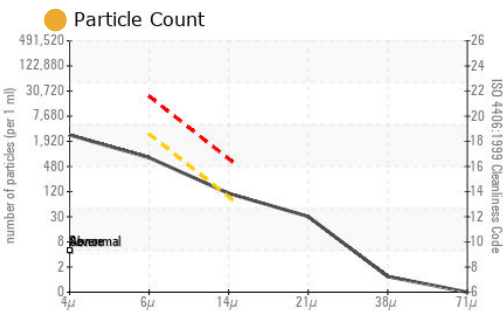
There is a light amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>20	4	4	4
Potassium	ppm	ASTM D5185m	>20	0	0	0
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647		2389	1630	41902
Particles >6µm		ASTM D7647	>2500	685	305	▲ 13763
Particles >14µm		ASTM D7647	>80	● 96	33	▲ 556
Particles >21µm		ASTM D7647	>20	27	8	▲ 80
Particles >38µm		ASTM D7647	>4	1	0	▲ 5
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>-/18/13	● 18/17/14	18/15/12	▲ 23/21/16
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
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		<1	1	2
Boron	ppm	ASTM D5185m	14	0	<1	0
Barium	ppm	ASTM D5185m	0.0	0	0	0
Molybdenum	ppm	ASTM D5185m	0.0	<1	<1	<1
Manganese	ppm	ASTM D5185m	0.0	0	<1	0
Magnesium	ppm	ASTM D5185m	2.6	0	3	5
Calcium	ppm	ASTM D5185m	49	129	218	190
Phosphorus	ppm	ASTM D5185m	354	292	401	346
Zinc	ppm	ASTM D5185m	419	399	509	422
Sulfur	ppm	ASTM D5185m	3719	1669	3022	2380
Acid Number (AN)	mg KOH/g	ASTM D8045		0.35	0.36	0.34
Visc @ 40°C	cSt	ASTM D445	46	42.7	42.6	43.2



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ASC0001875
Lab Number : 06034573
Unique Number : 10789802
Test Package : MOBCE
Received : 14 Dec 2023
Tested : 15 Dec 2023
Diagnosed : 15 Dec 2023 - Wes Davis

BLYTHE CONSTRUCTION INC
 2911 N GRAHAM STREET
 CHARLOTTE, NC
 US 28231
 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)