

WEAR NORMAL CONTAMINATION SEVERE FLUID CONDITION NORMAL

[701681] Machine Id VOLVO L110H 631226 Component Hydraulic System Fluid VOLVO SUPER HYDRAULIC OIL 46 (--- GAL)

RECOMMENDATION

We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation.

WEAR

All component wear rates are normal.

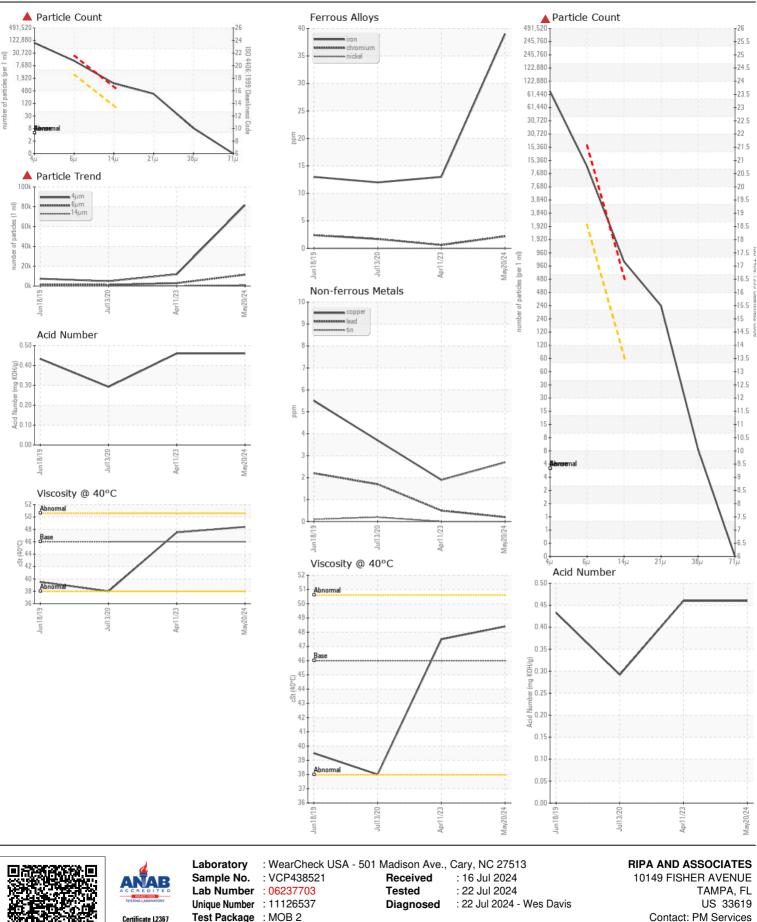
CONTAMINATION

There is a high amount of particulates (2 to 100 microns in size) present in the oil.

FLUID CONDITION

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP438521	VCP420271	VCP274709
Sample Date		Client Info		20 May 2024	11 Apr 2023	13 Jul 2020
Machine Age	hrs	Client Info		13441	11460	5614
Oil Age	hrs	Client Info		1441	2000	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Filter Changed		Client Info		Not Changd	Changed	Changed
Sample Status				SEVERE	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>50	39	13	12
Chromium	ppm	ASTM D5185m	>20	2	<1	2
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	0	<1
Lead	ppm	ASTM D5185m	>20	<1	<1	2
Copper	ppm	ASTM D5185m	>150	3	2	4
Tin	ppm	ASTM D5185m	>20	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>20	6	5	2 6
Potassium	ppm	ASTM D5185m	>20	11	<1	<1
Water	ppin	WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>0.1	81630	11848	4854
Particles >6µm		ASTM D7647	>2500	▲ 11394	2877	1170
Particles >14µm		ASTM D7647	>80	▲ 946	▲ 207	107
Particles >21µm		ASTM D7647	>20	▲ 298	38	30
Particles >38µm		ASTM D7647	>4	7	1	1
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)		4 24/21/17	1 21/19/15	19/17/14
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
Sodium	ppm	ASTM D5185m		3	<1	2
Boron	ppm	ASTM D5185m	14	0	0	1
Barium	ppm	ASTM D5185m	0.0	0	0	0
Molybdenum	ppm	ASTM D5185m	0.0	4	2	1
Manganese	ppm	ASTM D5185m	0.0	<1	0	0
Magnesium	ppm	ASTM D5185m	2.6	6	9	5
Calcium	ppm	ASTM D5185m	49	67	103	90
Phosphorus	ppm	ASTM D5185m	354	369	351	334
Zinc	ppm	ASTM D5185m	419	446	466	420
Sulfur	ppm	ASTM D5185m	3719	2061	1928	4379
Acid Number (AN)	mg KOH/g	ASTM D8045		0.46	0.46	0.292
Visc @ 40°C	cSt	ASTM D445	46	48.4	47.5	38.0



Test Package : MOB 2 Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. PMServices@ripaconstruction.com * - 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)

F: Contact/Location: PM Services ? - RIPTAM

T: