

WEAR CONTAMINATION FLUID CONDITION

NORMAL

ABNORMAL

NORMAL

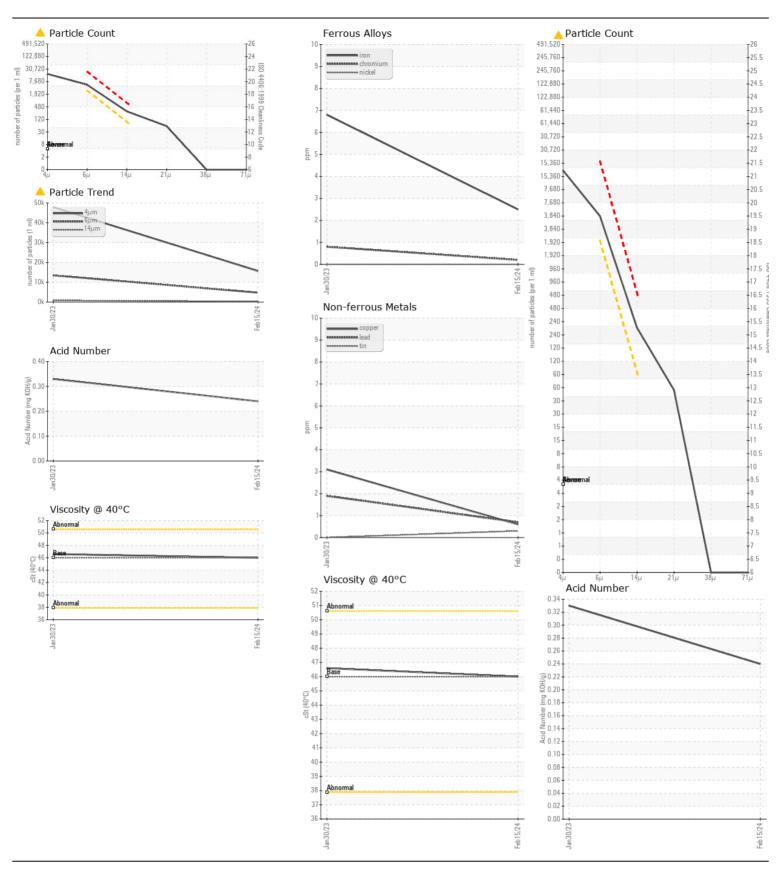


VOLVO L90H 625035

Component Hydraulic System

VOLVO SUPER HYDRAULIC OIL 46 (--- GAL)

VOLVO SUPER HYDRAULIC OI	L 46 (GA	(L)					
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TEO MINIERDATION	Sample Number	OOM	Client Info	Littleyton	VCP444259	VCP379683	
We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition.	Sample Date		Client Info		15 Feb 2024	30 Jan 2023	
	Machine Age	hrs	Client Info		3984	3010	
	Oil Age	hrs	Client Info		0	1500	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		N/A	Not Changd	
	Filter Changed		Client Info		N/A	Not Changd	
	Sample Status				ABNORMAL	ABNORMAL	
WEAD	lua-a		ACTM DE105		• • • • • • • • • • • • • • • • • • • •	7	
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m		2	7	
	Chromium	ppm	ASTM D5185m		<1	<1	
	Nickel	ppm	ASTM D5185m	>10	0	0	
	Titanium	ppm	ASTM D5185m		0	0	
	Silver	ppm	ASTM D5185m	00	0	<1	
	Aluminum	ppm	ASTM D5185m		0	<1	
	Lead	ppm	ASTM D5185m		<1	2	
	Copper	ppm	ASTM D5185m ASTM D5185m		<1	0	
	Tin Vanadium	ppm	ASTM D5165III	>20	<1 <1	0	
	White Metal	ppm	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
		scalar	Visuai	INOINL	INOINE	INOINL	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	2	4	
CONTAININATION	Potassium	ppm	ASTM D5185m		0	0	
There is a moderate amount of particulates (2 to 100 microns in size) present in the oil.	Water			>0.1	NEG	NEG	
	Particles >4µm		ASTM D7647		15631	47888	
	Particles >6µm		ASTM D7647	>2500	4720	<u></u> 13465	
	Particles >14µm		ASTM D7647	>80	255	<u></u> 813	
	Particles >21µm		ASTM D7647	>20	▲ 50	<u> </u>	
	Particles >38µm		ASTM D7647	>4	0	5	
	Particles >71μm		ASTM D7647	>3	0	0	
	Oil Cleanliness		ISO 4406 (c)	>/18/13	<u>^</u> 21/19/15	<u>\$\Delta\$ 23/21/17</u>	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	LIGHT	
	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	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		<1	2	
TESIS CONSTITUTE	Boron	ppm	ASTM D5185m	14	1	0	
The AN level is acceptable for this fluid. The oil is still serviceable	Barium	ppm	ASTM D5185m	0.0	0	0	
provided that the contaminant(s) can be reduced to acceptable levels.	Molybdenum	ppm	ASTM D5185m	0.0	0	<1	
	Manganese	ppm	ASTM D5185m	0.0	0	0	
	Magnesium	ppm	ASTM D5185m	2.6	1	<1	
	Calcium	ppm	ASTM D5185m	49	92	78	
	Phosphorus	ppm	ASTM D5185m	354	349	338	
	Zinc	ppm	ASTM D5185m	419	449	418	
	Sulfur	ppm	ASTM D5185m	3719	2090	2350	
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.24	0.33	
	Visc @ 40°C	cSt	ASTM D445	46	46.0	46.6	





Certificate L2367

Laboratory Sample No.

: VCP444259 Lab Number : 06102427 Unique Number : 10900657 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 27 Feb 2024 **Tested** : 29 Feb 2024 Diagnosed

: 29 Feb 2024 - Wes Davis

RIPA AND ASSOCIATES 10149 FISHER AVENUE TAMPA, FL US 33619

Contact: PM Services PMServices@ripaconstruction.com T:

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)

Contact/Location: PM Services ? - RIPTAM

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