

WEAR CONTAMINATION FLUID CONDITION

NORMAL

ABNORMAL

NORMAL



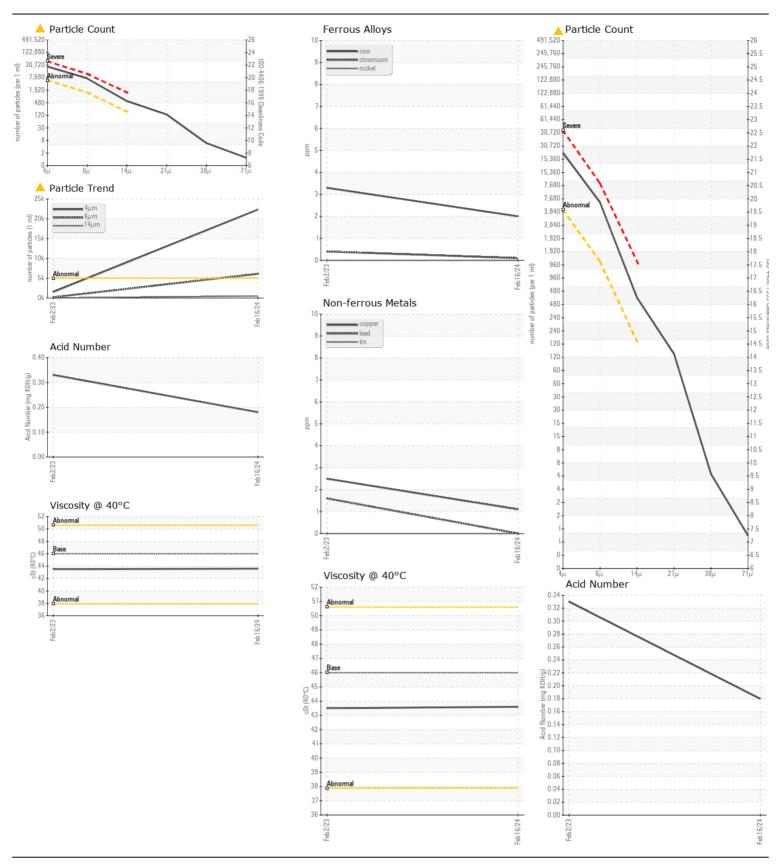
[S50601799 IAA BAY PT]

VOLVO L90H 625920

Component Hydraulic System

VOLVO SUPER HYDRAULIC OIL 46 (--- GAL)

VOLVO SUPER HYDRAULIC O	L 40 (GA	<u>'</u>)					
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		VCP440836		
The oil change at the time of sampling has been noted. We	Sample Date		Client Info		16 Feb 2024	02 Feb 2023	
recommend an early resample to monitor this condition.	Machine Age	hrs	Client Info		3995	2243	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				ABNORMAL	NORMAL	
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m		2	3	
	Chromium	ppm	ASTM D5185m		<1	<1	
	Nickel	ppm	ASTM D5185m	>10	0	0	
	Titanium	ppm	ASTM D5185m		0	0	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m		0	0	
	Lead	ppm	ASTM D5185m		0	2	
	Copper	ppm	ASTM D5185m		1	2	
	Tin	ppm	ASTM D5185m	>20	0	0	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	nnm	ASTM D5185m	> 20	3	3	
CONTAININATION	Potassium	ppm	ASTM D5185m		0	<1	
There is a moderate amount of particulates (2 to 100 microns in size) present in the oil.	Water	ррпп		>0.2	NEG	NEG	
	Particles >4µm		ASTM D7647		▲ 22317	1517	
	Particles >6μm		ASTM D7647		▲ 6091	181	
	Particles >14μm		ASTM D7647		<u>△</u> 504	11	
	Particles >21µm		ASTM D7647		<u> </u>	2	
	Particles >38µm		ASTM D7647		5	0	
	Particles >71µm		ASTM D7647		1	0	
	Oil Cleanliness		ISO 4406 (c)		<u>^</u> 22/20/16	18/15/11	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	LIGHT	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		<1	0	
The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.	Boron	ppm	ASTM D5185m		0	0	
	Barium	ppm	ASTM D5185m		0	<1	
	Molybdenum	ppm	ASTM D5185m		0	<1	
	Manganese	ppm	ASTM D5185m		0	0	
	Magnesium	ppm	ASTM D5185m		2	4	
	Calcium	ppm	ASTM D5185m		58	57	
	Phosphorus	ppm	ASTM D5185m		327	303	
	Zinc	ppm	ASTM D5185m		432	407	
	Sulfur	ppm	ASTM D5185m	3/19	1943	1840	
	Acid Number (AN)	mg KOH/g	ASTM D8045	16	0.18	0.33	
	Visc @ 40°C	cSt	ASTM D445	46	43.6	43.5	





Certificate L2367

Laboratory Sample No.

Lab Number : 06097628 Unique Number: 10890481 Test Package : MOB 2

: VCP440836

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 22 Feb 2024 **Tested** : 23 Feb 2024

: 23 Feb 2024 - Wes Davis Diagnosed

VCES- VOLVO CONSTRUCTION EQUIPMENT 1944 MARINA BLVD SAN LEANDRO, CA US 94577

Contact: JOHN BUDESILICH john.budesilich@vcesvolvo.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)

F: (925)294-9240

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