

WEAR CONTAMINATION FLUID CONDITION

Limit/Abn Current

UOM Method

NORMAL

ABNORMAL

NORMAL

History1

History2



RECOMMENDATION

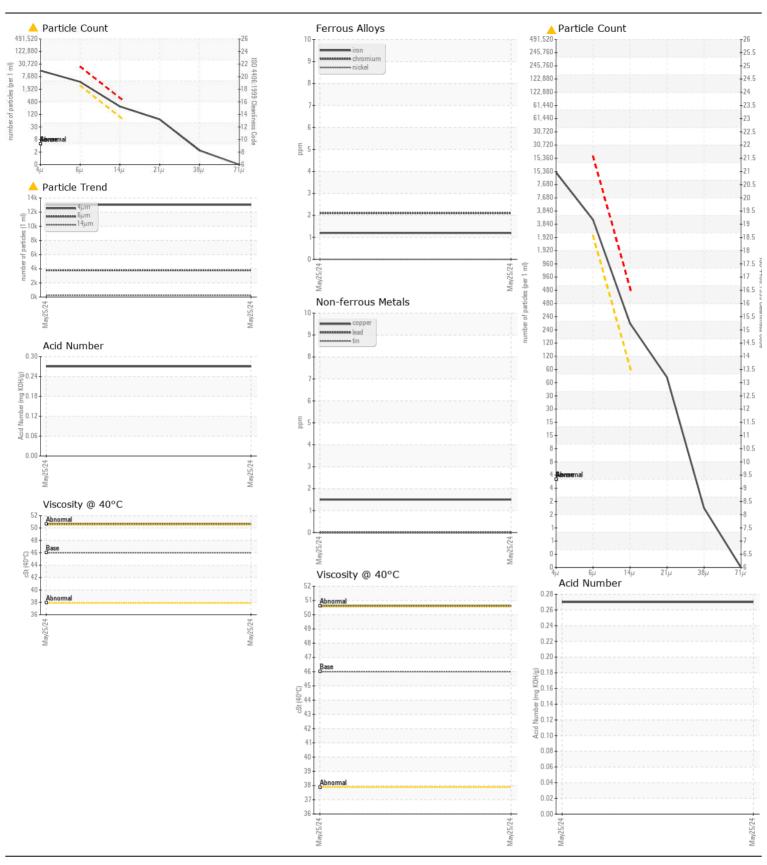
Machine Id **VOLVO L90H 626191**

Hydraulic System

VOLVO SUPER HYDRAULIC OIL 46 (--- GAL)

RECOMMENDATION	rest	UOM	Method	Limit/Abn	Current	History I	HISTORY2
The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Number		Client Info		VCP438725		
	Sample Date		Client Info		25 May 2024		
	Machine Age	hrs	Client Info		4806		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
WEAR	Iron	ppm	ASTM D5185m	>50	1		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	2		
	Nickel	ppm	ASTM D5185m	>10	0		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m	>20	0		
	Lead	ppm	ASTM D5185m		0		
	Copper		ASTM D5185m		2		
	Tin	ppm	ASTM D5185m		0		
	Vanadium	ppm		>20	0		
		ppm	ASTM D5185m	NICAIE	-		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	nnm	ASTM D5185m	- 20	0		
		ppm					
There is a moderate amount of particulates (2 to 100 microns in size)	Potassium	ppm	ASTM D5185m		0		
present in the oil.	Water		WC Method	>0.1	NEG		
	Particles >4µm		ASTM D7647		13023		
	Particles >6µm		ASTM D7647		3778		
	Particles >14μm		ASTM D7647		<u> </u>		
	Particles >21μm		ASTM D7647		<u></u> 61		
	Particles >38μm		ASTM D7647		2		
	Particles >71μm		ASTM D7647		0		
	Oil Cleanliness		ISO 4406 (c)	>/18/13	<u> </u>		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.1	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		4		
	Boron	ppm	ASTM D5185m	14	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.	Barium	ppm	ASTM D5185m	0.0	0		
	Molybdenum	ppm	ASTM D5185m	0.0	0		
	Manganese	ppm		0.0	0		
	Magnesium	ppm	ASTM D5185m		1		
	Calcium	ppm	ASTM D5185m		77		
	Phosphorus	ppm	ASTM D5185m		337		
	Zinc		ASTM D5185m		427		
	Sulfur	ppm	ASTM D5185m		2337		
				3/13			
	Acid Number (AN)	mg KOH/g	ASTM D8045	10	0.27		
	Visc @ 40°C	cSt	ASTM D445	46	50.6		

Test





Certificate L2367

Laboratory Sample No.

: VCP438725 Lab Number : 06197564 Unique Number : 11059687 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested**

: 03 Jun 2024 : 04 Jun 2024 : 04 Jun 2024 - Wes Davis Diagnosed

5151 DR MARTIN LUTHER KING BLVD FORT MYERS, FL

US 33905 Contact: TODD LARK tlark@altaequipfl.com

ALTA EQUIPMENT COMPANY

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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