WEAR CONTAMINATION FLUID CONDITION

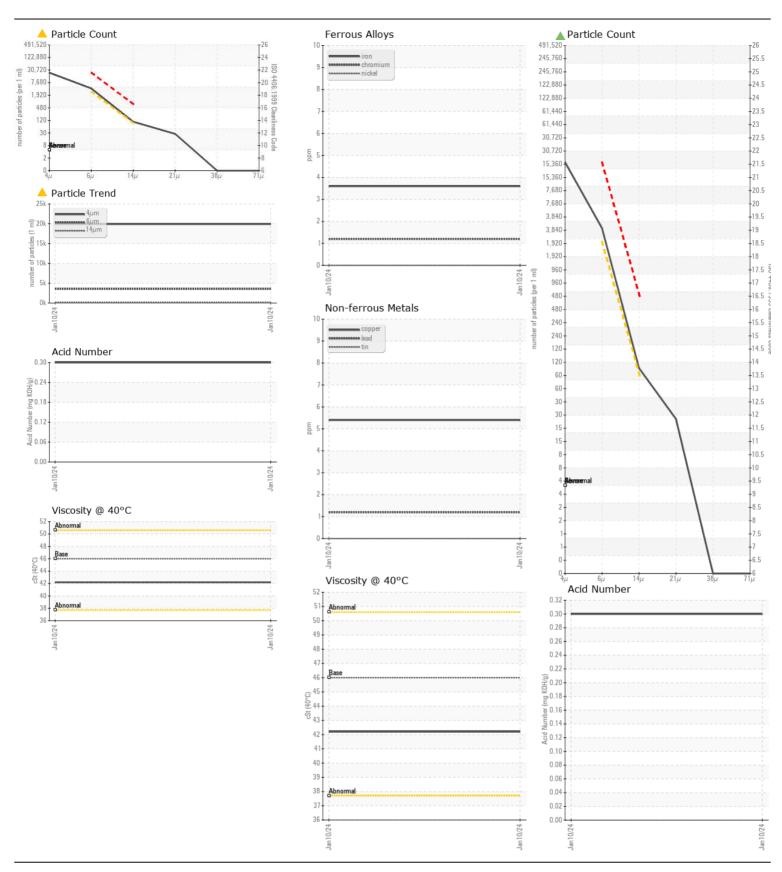
NORMAL
ATTENTION
NORMAL

ISWA451774 IAA]
Machine Id
VOLVO L90H 625538

Component Hydraulic System

VOLVO SUPER HYDRAULIC OIL 46 (--- GAL)

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Sample Date Client Info Sample Date Client Info Sample Date Client Info Sample Date Client Info Sign Si	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
the next service interval to monitor. Machine Age Inst Scient Info 0 1 1 1 1 1 1 1 1 1	The Character of the Connection has been unded December.	Sample Number		Client Info		VCP433180		
Macrine Age Mrs Glient Info 0		Sample Date		Client Info		10 Jan 2024		
Filter Age Dick Info Changed Cilent Info Changed Changed Cilent Info Changed Changed Changed Changed Changed Cilent Info Changed Changed	the next service interval to monitor.	Machine Age	hrs	Client Info		5139		
Oil Changed Cilent Info Changed Cilent Info Sample Status Cilent Info Sample Status Cilent Info Sample Status Cilent Info Changed Cilent Info Sample Status Component wear rates are normal.		Oil Age	hrs	Client Info		0		
Filter Changed Sample Status Client Info Changed Client Info Client Info Changed Client Info Client In		Filter Age	hrs	Client Info		0		
Name		Oil Changed		Client Info		Changed		
VEAR		Filter Changed		Client Info		Changed		
All component wear rates are normal. Chromium ppm ASTM D5155m > 0 1		Sample Status				ATTENTION		
All component wear rates are normal. Chromium ppm ASTM D5155m > 0 1	WEAD			AOTH DE LOS				
Nickel Dpm ASTM D5185m 0 0	WEAR							
Titanium ppm ASTM (5185m 0	All component wear rates are normal							
Silver ppm ASTM 05185m 20 0	7 iii ddinponone waar tataa ara norman				>10			
Aluminum ppm ASTM D5865m >20 0								
Lead					00	-		
Copper						-		
Tin								
Vanadium ppm ASTM D5185m 0		• •						
White Metal Scalar Visual NONE N					>20			
Yellow Metal Scalar *Visual NONE NONE					NONE	-		
Silicon ppm ASTM D5185m >20 2 Potassium ppm ASTM D5185m >20 0 Water WC Method >0.1 NEG Particles >4µm ASTM D7647 >2500 ▲ 3544 Particles >14µm ASTM D7647 >2500 ▲ 3544 Particles >38µm ASTM D7647 >20 24 Particles >38µm ASTM D7647 >4 0 Particles >38µm ASTM D7647 >4 0 Particles >38µm ASTM D7647 >4 0 Particles >71µm ASTM D7647 >4 0 Particles >71µm ASTM D7647 >4 0 Particles >71µm ASTM D7647 >4 0 Particles >38µm NONE NONE NONE Silt scalar Visual NONE NONE Sand/Dirt scalar Visual NONE NONE NONE Appearance scalar Visual NONE NONE NONE Appearance scalar Visual NONE NONE NONE Appearance scalar Visual NONE NONE NONE Appearance scalar Visual NONE NORE Appearance scalar Visual NONE NORE Appearance scalar Visual NORML NORML NORML NORML The AN level is acceptable for this fluid. The condition of the oil is suitable for further service. Sodium ppm ASTM D5185m 0 0 Magnesium ppm ASTM D5185m 0.0 0 Phosphorus ppm ASTM D5185m 9 54 Phosphorus ppm ASTM D5185m 41 9 391 Phosphorus ppm ASTM D5185m 41 9 391 Phosphorus ppm ASTM D5185m 41 9 391						_		
Potassium ppm ASTM D5185m ≥20 0		Yellow Metal	scalar	"VISUAI	NONE	NONE		
Potassium ppm ASTM D5185m ≥20 0	CONTAMINATION	Silicon	nnm	ASTM D5185m	>20	2		
There is a light amount of silt (particulates < 14 microns in size) present in the oil.	CONTAMINATION							
Particles >4µm ASTM D7647 S0 M 3544 S0 S0 S0 S0 S0 S0 S0			ppiii			-		
Particles >6µm ASTM D7647 >2500 ▲ 3544 Particles >14µm ASTM D7647 >80 ▲ 91 Particles >21µm ASTM D7647 >20 24 Particles >21µm ASTM D7647 >4 0 Particles >71µm ASTM D7647 >3 0 Particles >71µm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) (I8173 21/19/14 Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML NORML NORML Debris scalar *Visual NORML NORML NORML NORML NORML NORML ASTM D5185m 0.0 0 Boron ppm ASTM D5185m 0.0 0 Malydenum ppm ASTM D5185m 0.0 0 Manganesium ppm ASTM D5185m 0.0 0 Mang					70.1			
Particles >14 µm		•			>2500			
Particles >21µm ASTM D7647 >20 24 Particles >38µm ASTM D7647 >4 0 Particles >38µm ASTM D7647 >3 0 Particles >38µm ASTM D7647 >3 0 Particles >38µm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) ISO 4406 (
Particles >38µm ASTM D7647 >4 0 Particles >71µm ASTM D7647 >3 0 Oil Cleanliness SO 4406 (c) /18/13 ▲ 21/19/14 Silt Scalar *Visual NONE NONE NONE Debris Scalar *Visual NONE NONE NONE NONE Sand/Dirt Scalar *Visual NORML NORML NORML NORML Appearance Scalar *Visual NORML NORML NORML NORML Appearance Scalar *Visual NORML NORML NORML Emulsified Water Scalar *Visual NORML NORML NORML Emulsified Water Scalar *Visual NORML NORML NORML Emulsified Water Scalar *Visual NORML NORML Emulsified Water Scalar *Visual NORML NORML Emulsified Water Scalar *Visual NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML		•						
Particles > 71 µm ASTM D7647 > 3 0 Oil Cleanliness ISO 4406 (c) >/18/13 21/19/14 Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NORM N								
Oil Cleanliness ISO 4406 (c) >-/18/13 ▲ 21/19/14 Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML						0		
Silt scalar *Visual NONE NORML NORML				ISO 4406 (c)	>/18/13			
Sand/Dirt Scalar *Visual NONE NONE Appearance Scalar *Visual NORML NORM			scalar					
Sand/Dirt Scalar *Visual NONE NONE Appearance Scalar *Visual NORML NORM		Debris	scalar	*Visual	NONE	NONE		
Codor Scalar *Visual NORML N		Sand/Dirt	scalar		NONE	NONE		
Emulsified Water scalar *Visual >0.1 NEG		Appearance	scalar	*Visual	NORML	NORML		
Sodium ppm ASTM D5185m 14 0		Odor	scalar	*Visual	NORML	NORML		
Boron ppm ASTM D5185m 14 0		Emulsified Water	scalar	*Visual	>0.1	NEG		
Boron ppm ASTM D5185m 14 0								
Barium ppm ASTM D5185m 0.0 0	FLUID CONDITION		ppm					
Suitable for further service. Molybdenum ppm ASTM D5185m 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	The AN level is acceptable for this fluid. The condition of the oil is							
Molybdenum ppm ASTM D5185m 0.0 C1 Magnesium ppm ASTM D5185m 2.6 3 Calcium ppm ASTM D5185m 49 54 Phosphorus ppm ASTM D5185m 354 307 Zinc ppm ASTM D5185m 419 391 Sulfur ppm ASTM D5185m 3719 1895 Acid Number (AN) mg KOH/g ASTM D8045 0.30								
Magnesium ppm ASTM D5185m 2.6 3 Calcium ppm ASTM D5185m 49 54 Phosphorus ppm ASTM D5185m 354 307 Zinc ppm ASTM D5185m 419 391 Sulfur ppm ASTM D5185m 3719 1895 Acid Number (AN) mg KOH/g ASTM D8045 0.30		•						
Calcium ppm ASTM D5185m 49 54 Phosphorus ppm ASTM D5185m 354 307 Zinc ppm ASTM D5185m 419 391 Sulfur ppm ASTM D5185m 3719 1895 Acid Number (AN) mg KOH/g ASTM D8045 0.30		_						
Phosphorus ppm ASTM D5185m 354 307 Zinc ppm ASTM D5185m 419 391 Sulfur ppm ASTM D5185m 3719 1895 Acid Number (AN) mg KOH/g ASTM D8045 0.30		•						
Zinc ppm ASTM D5185m 419 391 Sulfur ppm ASTM D5185m 3719 1895 Acid Number (AN) mg KOH/g ASTM D8045 0.30								
Sulfur ppm ASTM D5185m 3719 1895 Acid Number (AN) mg KOH/g ASTM D8045 0.30								
Acid Number (AN) mg KOH/g ASTM D8045 0.30								
					3/19			
VISC @ 40°C CSt ASTM D445 46 42.2					16			
		VISC @ 40°C	000	ASTIVI D445	40	42.2		





Certificate L2367

Laboratory

Sample No. Lab Number : 06065532 : 10836914 **Unique Number** Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 19 Jan 2024 : VCP433180 : 23 Jan 2024 Diagnosed : Wes Davis Diagnostician

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.

ALTA EQUIPMENT COMPANY

5210 REESE ROAD DAVIE, FL US 33314

Contact: N. FACEY nfacey@altaequipfl.com T: (954)581-4744

F: (954)583-0318 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)