

CONSTRUCTION EQUIPMENT VOLVO A45G 353251 - HYDRAULIC SYSTEM



Sample No: VCP454380

Oil Type: VOLVO SUPER HYDRAULIC OIL 46

Job No:

Machine Hours					
SAMPLE INFORMATION Sample Number VCP454380 VCP415831 VCP454380 VCP415831 VCP	VOLVO				
Sample Date O4 May 2024 20 Jul 2023	SAMPLE II	NFORMATION			
Sample Date	Sample Number		VCP454380	VCP415831	
Machine Hours 3988 2242	Sample Date		04 May 2024	20 Jul 2023	
Changed Not Changed Changed Not Changed Changed Changed Changed NormAll NormAll Changed Changed Changed NormAll Changed Change	Machine Hours		=	2242	
NORMAL N	Oil Hours		0	0	
OIL CONDITION Visc @ 40°C	Oil Changed		Changed	Not Changd	
OIL CONDITION Visc @ 40°C	Sample Status		NORMAL	NORMAL	
OIL CONDITION					
Visc @ 40°C CSt 43.2 43.6 Acid Number (AN) mg KOH/g 0.36 0.43 VOLVO CONTAMINATION Water % NEG NEG Particles > 4µm 5888 7338 Particles > 14µm 21 71 SISO 4406:1999 (c) 20/16/12 20/18/13 Silicon ppm 5 5 5 Sodium ppm 0 1 Potassium ppm 0 1 VOLVO WEAR METALS Uron ppm 3 2 Lead ppm 3 2 Lead ppm 3 2 Lead ppm 2 0 Maluminum ppm 0 1 0 Chromium ppm 0 1 0 Molybdenum ppm 0 0 Titanium ppm 0 0 Vanadium ppm 0 0 Wanganese ppm 0 0 Manganese ppm 0 0 Manganesium ppm 0 438 439 Barium ppm 361 338 Barium ppm 0 0 Barium ppm 0 0 0 Barium ppm 361 338	VOTAGE UII CUNUI	TION			
CONTAMINATION Water % NEG NEG Particles >4µm 5888 7338 Particles >14µm 5522 1375 Particles >14µm 553 So duor ppm 55 5 5 Sodium ppm 0 1 1 Potassium ppm 0 1 1 WEAR METALS Iron ppm 3 2 2 Lead ppm 3 3 2 Tin ppm 1 1 0 Aluminum ppm 2 1 0 Chromium ppm 0 1 0 Aluminum ppm 0 0 Silver ppm 0 0 0 Nickel ppm 0 0 0 Silver ppm 0 0 0 0 Water ppm 0 0 0 0 Calcium ppm 0 0 0 0 Calcium ppm 0 0 0 Calcium ppm 0 0 0 Adagnesium ppm 1 1 0 0			= 42.2	- 42 C	
CONTAMINATION					
NEG NEG	Acid Number (AN)	mg KOH/g	■0.36	0.43	
NEG NEG	VOLVO				
Particles > 4µm 5888 7338 Particles > 6µm 5522 1375 Particles > 14µm 21 71 Particles > 14µm 21 Particles > 14µm 20 Particles > 14µm 21 Particles > 14µm 20 Particles > 14µm 21 Particles > 14µm 20 Part	CONTAMIN	NATION			
Particles > 4µm 5888 7338 Particles > 6µm 5522 1375 Particles > 14µm 21 71 Particles > 14µm 21 Particles > 14µm 20 Particles > 14µm 21 Particles > 14µm 20 Particles > 14µm 21 Particles > 14µm 20 Part	Water	%	NEG	NEG	
Particles > 6µm					
Particles > 14µm	Particles >6µm		522	□1375	
Solition	Particles > 14µm		21	1 71	
Sodium	ISO 4406:1999 (c)		20/16/12	20/18/13	
Sodium	Silicon	ppm	■ 5	5	
VOLVO VEAR METALS	Sodium		0	1	
WEAR METALS	Potassium		■<1	0	
WEAR METALS					
Solution Solution	WEAD ME	7117			
Copper	_				
Calcium ppm 3					
Tin ppm <1 0 Aluminum ppm 2 0 0 Chromium ppm <1 0 0 Molybdenum ppm <1 0 0 Nickel ppm 0 0 0 Titanium ppm 0 0 Silver ppm 0 0 Manganese ppm <1 0 Vanadium ppm 0 <1 ADDITIVES Calcium ppm 67 53 Magnesium ppm 1 0 Zinc ppm 438 439 Phosphorus ppm 361 338 Barium ppm 0 0	• •				
Aluminum ppm 2 0 0			_		
Chromium ppm			_		
Molybdenum ppm <1					
Nickel ppm 0 0 Titanium ppm 0 0 Silver ppm 0 0 Manganese ppm 0 <1					
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Silver ppm 0 0 Manganese ppm <1 0 Vanadium ppm 0 <1 Calcium ppm 67 53 Magnesium ppm 1 0 Zinc ppm 438 439 Phosphorus ppm 361 338 Barium ppm 0 0					
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Calcium ppm 67 53 Magnesium ppm 1 0 Zinc ppm 438 439 Phosphorus ppm 361 338 Barium ppm 0 0	VOLVO				
Magnesium ppm 1 0 Zinc ppm 438 439 Phosphorus ppm 361 338 Barium ppm 0	_	7			
Zinc ppm 438 439 Phosphorus ppm 361 338 Barium ppm 0 0	Calcium	ppm			
Phosphorus ppm 361 338 Barium ppm 0 0	Magnesium				
Barium ppm □0 □0	Zinc				
	Phosphorus	ppm			
Boron	Barium				
	Boron	ppm	■0	0	



ALTA EQUIPMENT COMPANY

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Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Depot:VOLVO0090Unique No:11017150Signed:Wes DavisReport Date:08 May 2024



CONSTRUCTION EQUIPMENT





GRAPHS

