CONSTRUCTION EQUIPMENT A66074 VOLVO EC160D 220502 - HYDRAULIC SYSTEM



Sample No: VCP420424 **Oil Type:**

VOLVO

VOLVO SUPER HYDRAULIC OIL 46

Job No:

A66074

SAMPLE INFORMAT	FION		
Sample Number	VCP420424	VCP420423	
Sample Date	21 May 2023	20 May 2023	
Machine Hours	9418	9418	
Oil Hours	0	3000	
Oil Changed	Changed	Changed	
Sample Status	SEVERE	SEVERE	
OIL CONDITION			
Visc @ 40°C cSt	36.2	36.3	
Acid Number (AN) mg KO	H/g 0.26	0.25	
VOLVO			

CONTAMINATION NEG NEG Water % Particles >4µm 64139 ---Particles >6µm 2517 ---Particles >14µm 33 ---ISO 4406:1999 (c) 23/19/12 Silicon ppm 17 18 Sodium ppm 2 2 3 4 Potassium ppm

WEAR METALS

Iron	ppm	🔺 59	▲ 64	
Copper	ppm	51	56	
Lead	ppm	1	1	
Tin	ppm		<1	
Aluminum	ppm	4	4	
Chromium	ppm	2	3	
Molybdenum	ppm	1	1	
Nickel	ppm	■ <1	1	
Titanium	ppm	<1	<1	
Silver	ppm	0	0	
Manganese	ppm	 <1	<1	
Vanadium	ppm	0	0	

ADDITIV	ES				
Calcium	ppm	43	50	 	
Magnesium	ppm	8	10	 	
Zinc	ppm	359	404	 	
Phosphorus	ppm	326	373	 	
Barium	ppm	0	0	 	
Boron	ppm	0	0	 	

CHADWICK-BAROSS INC MAIN

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Diagnosis

The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to metal particles present in this sample. NOTE: one of two samples received with same ID.The iron level is abnormal. High concentration of visible metal present. No other contaminants were detected in the oil. The AN level is acceptable for this fluid.

Depot: VOLVO0006 Unique No: 10482468 Signed: Don Baldridge Report Date: 24 May 2023

CONSTRUCTION EQUIPMENT



GRAPHS

▲ Ferrous Alloys

VOLVO



