

CONSTRUCTION EQUIPMENT BACKHUS WT-5 - DIESEL ENGINE



Sample No: VCP416328

Oil Type:

MOBIL DELVAC 1300 SUPER15W40

Job No:

Zinc

Barium

Boron

Phosphorus

	NFORMATION				
Sample Number		VCP416328	VCP358717	VCP249954	VCP306132
Sample Date		30 Aug 2023	21 Sep 2022	24 Nov 2021	18 Mar 2021
Machine Hours		1000	737	496	242
Dil Hours		263	250	250	193
Oil Changed		Changed	Changed	Changed	Changed
Sample Status		NORMAL	NORMAL	NORMAL	ABNORMAL
				Northinte	/ Brioran / E
VOLVO					
VIL CONDI	IION				
Visc @ 100°C	cSt	12.8	12.8	11.8	13.2
Base Number (BN)	mg KOH/g	9.2	9.8	6.6	
Oxidation (PA)	%	73	90	80	57
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Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	73	80	83	76
Sulfation (PA)	%	60	67	67	59
Glycol	%	NEG	NEG	0.0	NEG
Fuel	%	<1.0	< 1.0	<1.0	<1.0
Silicon	ppm	8	8	7	14
Sodium	ppm	3	2	2	4
Potassium	ppm	62	28	60	39
VOLVO					
🤍 WEAR ME	TALS				
Iron	ppm	8	7	9	20
Copper	ppm	15	60	246	6 18
Lead	ppm	0	<1	0	0
Tin	ppm	0	0	0	0
Aluminum	ppm	23	8	11	11
Chromium	ppm		<1	 <1	 <1
Molybdenum	ppm	63	37	4	12
Nickel	ppm	0	0	0	0
Titanium	ppm	0	<1	<1	<1
Silver	ppm	∎1	1	2	 <1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	1
	7				
<u> </u>					
Calcium	ppm	1432	1623	2760	2776
Magnesium	ppm	1002	556	30	94

999

793

0

26

1308

1076

0

71

1184

1005

0

11



MARYLAND ENVIRONMENTAL SERVICES

21210 MARTINSBURG RD DICKERSON, MD US 20842 Contact: ALAN PARRISH aparr@menv.com T: (301)428-8185 F: (301)428-8311

Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. No other contaminants were detected in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

 Depot:
 MARDIC

 Unique No:
 10644723

 Signed:
 Don Baldridge

 Report Date:
 14 Sep 2023

ppm

ppm

ppm

ppm

1383 🔲

1103

0 🔲

15

Contact/Location: ALAN PARRISH - MARDIC

CONSTRUCTION EQUIPMENT



GRAPHS

VOLVO

