

CONSTRUCTION EQUIPMENT 3458 VOLVO SD45B 230447 - DIESEL ENGINE



Sample No: VCP364487

Oil Type: MOBIL DELVAC 1300 SUPER15W40

Job No: 3458

VOLVO					
SAMPLE IN	NFORMATION				
Sample Number	-	VCP364487	VCP364480	VC019922	
Sample Date		22 Aug 2023	01 Nov 2022	24 Oct 2022	
Machine Hours		43	5	3	
Oil Hours		36	1	3	
Oil Changed		Not Changd	Changed	Not Changd	
Sample Status		SEVERE	NORMAL	SEVERE	
OIL CONDI.	TION				
Visc @ 100°C	cSt		14.0		
Base Number (BN)		■38.0	10.4	24.2	
Oxidation (PA)	%	114	78	95	
Oxidation (FA)	70	114	70	93	
VOLVO					
CONTAMIN	NATION				
Water	%	9.53		5.44	
Soot %	%	■ 0.3	0.1	■ 0.2	
Nitration (PA)	%	246	42	148	
Sulfation (PA)	%	0	63	18	
Glycol	%	NEG	NEG	0.0	
Fuel	%	<1.0	<1.0	■ 0.3	
Silicon	ppm	1 4	1 0	1 1	
Sodium	ppm	■0	0	4	
Potassium	ppm	2	□0	2	
WEAR ME	Z IAT				
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Iron	ppm	8	2	6	
Copper	ppm	2	□ <1 □ <1	8	
Lead Tin	ppm	= <1	<1	<1	
	ppm	4	<1	- <1	
Aluminum	ppm	5	<1	2	
Chromium	ppm	= <1	0	<u> </u>	
Molybdenum	ppm	37	3 7	4 1	
Nickel	ppm	= <1	0	2	
Titanium	ppm	<1	0	0	
Silver	ppm	0	0	0	
Manganese	ppm	1	<1	2	
Vanadium	ppm	<1	0	<1	
ADDITIVE:					
Calcium	ppm	1707	□1586	□ 1803	
Magnesium	ppm	551	492	450	
Zinc	ppm	1035	862	1120	
Phosphorus	ррт	837	709	909	
Barium	ppm	0	0	□ 0	
Boron	ppm	83	73	6 5	
DOTOTI	ppiii	0 3	13	00	

TRI-STATE TRUCK & EQUIP INC

5024 TRI-HILL FRONTAGE ROAD GREAT FALLS, MT US 59404 Contact: TOM VOLK tomv@tste.com T: (406)452-9551 F: (406)452-9831

Diagnosis

We advise that you check for the source of water entry. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition. Please note that there was too much water present in the oil to perform a viscosity test. All component wear rates are normal. Appearance is milky. There is a high concentration of water present in the oil. The oil is no longer serviceable due to the presence of contaminants.

Depot:VOLVO0118Unique No:10620383Signed:Jonathan HesterReport Date:29 Aug 2023



CONSTRUCTION EQUIPMENT





