

# CONSTRUCTION EQUIPMENT VOLVO SD115B 236870 - DIESEL ENGINE



### Sample No: VCP400467

Oil Type:

VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

#### Job No:

	FORMATION			
Sample Number	-	VCP400467	 	
Sample Date		19 Jul 2023	 	
Machine Hours		534	 	
Oil Hours		0	 	
Oil Changed		Changed	 	
Sample Status		ABNORMAL	 	
		ADITORMAL		
OIL CONDI	τιον			
Visc @ 100°C	-	. 12.4	 	
	cSt	▲ 12.4	 	
Base Number (BN)	mg KOH/g	9.3	 	
Oxidation (PA)	%	77	 	
VOLVO			 	
Contamin	IATION			
Soot %	%	0.3	 	
Nitration (PA)	%	63	 	
Sulfation (PA)	%	60	 	
Glycol	%	NEG	 	
Fuel	%	0.5	 	
Silicon	ppm	23	 	
Sodium	ppm	5	 	
Potassium	ppm	33	 	
	pp			
VOLVO				
VEAR ME	IALS			
Iron	ppm	<b>A</b> 148	 	
Copper	ppm	28	 	
Lead	ppm	2	 	
Tin	ppm	3	 	
Aluminum	ppm	<b>1</b> 06	 	
Chromium	ppm	<b>1</b> 8	 	
Molybdenum	ppm	44	 	
Nickel	ppm		 	
Titanium	ppm	<1	 	
Silver	ppm	0	 	
Manganese	ppm	5	 	
Vanadium	ppm	<1	 	
ADDITIVE:	7			
Calcium	ppm	<b>1718</b>	 	
Magnesium	ppm	561	 	
Zinc	ppm	<b>1143</b>	 	
Phosphorus	ppm	919	 	
Barium	ppm	0	 	

WHITMIRE GRADING

130 BULLDOZER LANE BREVARD, NC US 28712 Contact: DENNY WHITMIRE denny@whitmiregrading.com T: (828)883-3867 F: (828)885-8323

## 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.Piston, ring and cylinder wear is indicated. All other metal levels are typical for a new component breaking in. Fuel content negligible. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Depot:WHIBREUnique No:10564324Signed:Don BaldridgeReport Date:21 Jul 2023

ppm

Boron

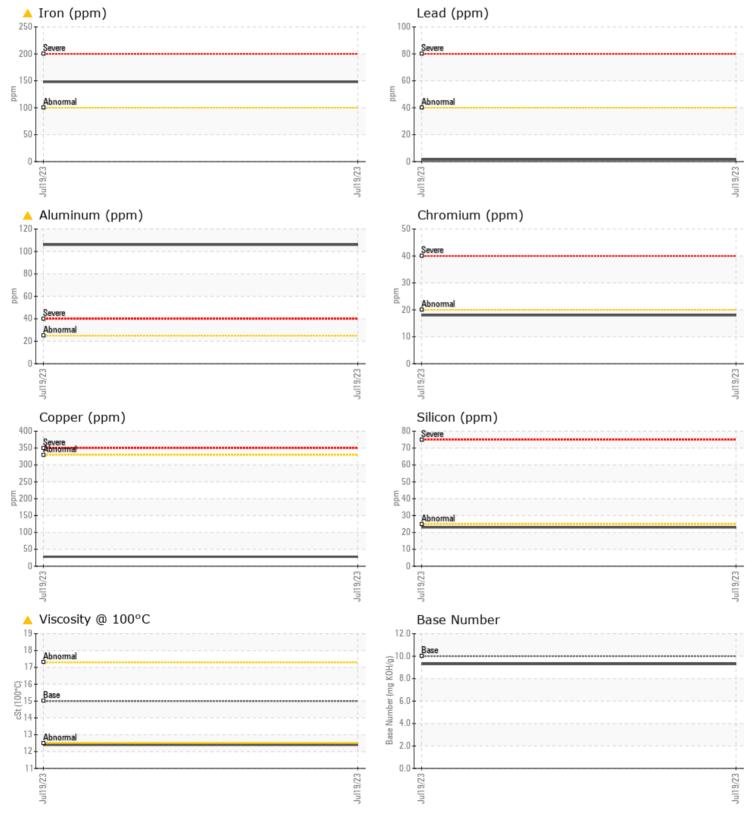
51

# **CONSTRUCTION EQUIPMENT**



GRAPHS

VOLVO



Report Id: WHIBRE [WUSCAR] 05902968 (Generated: 07/24/2023 06:48:26) Rev: 1

Contact/Location: DENNY WHITMIRE - WHIBRE