

CONSTRUCTION EQUIPMENT

SPM620963 MCIRON VOLVO A45GFS 353666 - DIESEL ENGINE

Sample No: VCP414262

Oil Type: DIESEL ENGINE OIL SAE 15W40

Job No: SPM620963 MCIRON

VOLVO				
SAMPLE II	NFORMATION			
Sample Number	-	VCP414262	 	
Sample Date		19 Oct 2023	 	
Machine Hours		495	 	
Oil Hours		0	 	
Oil Changed		Changed	 	
Sample Status		ABNORMAL	 	
OIL CONDI	TION			
Visc @ 100°C	cSt	<u> 10.9</u>	 	
Base Number (BN)		■ 5.8	 	
Oxidation (PA)	%	56	 	
VOLVO				
CONTAMIN	NATION			
Water	%	NEG	 	
Soot %	%	■ 0.6	 	
Nitration (PA)	%	85	 	
Sulfation (PA)	%	54	 	
Glycol	%	NEG	 	
Fuel	%	■ 0.7	 	
Silicon	ppm	42	 	
Sodium	ppm	■ 4	 	
Potassium	ppm	4	 	
WEAR ME	2147			
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Iron	ppm	38	 	
Copper	ppm	<u>^</u> 465	 	
Lead	ppm	1	 	
Tin	ppm	6	 	
Aluminum	ppm	4	 	
Chromium	ppm	□ 2 ■122	 	
Molybdenum Nickel	ppm	_	 	
	ppm	■ 6	 	
Titanium	ppm		 	
Silver	ppm	0	 	
Manganese Vanadium	ppm	■ 3	 	
variauluifi	ppm	U	 	
VOLVO	_			
ADDITIVE	7			
Calcium	ppm	2983	 	
Magnesium	ppm	17	 	
Zinc	ppm	1581	 	
Phosphorus	ppm	1305	 	
Barium	ppm	0	 	
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ALTA CONSTRUCTION EQUIPMENT

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T:

Diagnosis

F:

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other metal levels are typical for a new component breaking in. Fuel content negligible. Elemental level of silicon (Si) above normal indicating ingress of seal material. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Depot: VOLVO5055
Unique No: 10751282
Signed: Jonathan Hester
Report Date: 24 Nov 2023

Boron



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