CONSTRUCTION EQUIPMENT 24774 VOLVO L220 3456 - DIESEL ENGINE



Sample No: VCP418469

VOLVO

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 24774

Job No:

SAMPLE INFORMATION

Sample Number	-	VCP418469	VCP420824				
Sample Date		12 Jan 2024	15 Jun 2023				
Machine Hours		2189	1018				
Oil Hours		0	1000				
Oil Changed		Changed	Changed				
Sample Status		ABNORMAL	ABNORMAL				
Visc @ 100°C	cSt	11.8	1 1.6				
Base Number (BN)	mg KOH/g	6.5	5.6				
Oxidation (PA)	%	88	76				
CONTAMINATION							
Water	%	NEG	NEG				
Soot %	%	0.3	0.2				
Nitration (PA)	%	85	71				
Sulfation (PA)	%	65	62				
Glycol	%	NEG	NEG				
Fuel	%	<1.0	0.4				
Silicon	ppm	9	▲ 27				
Sodium	ppm	2	3				
Potassium	ppm	2	□4				

WEAR METALS

Iron	ppm	12	15	
Copper	ppm	<u> </u>	<u> </u>	
Lead	ppm	0	0	
Tin	ppm	2	3	
Aluminum	ppm	2	2	
Chromium	ppm	■<1	□ <1	
Molybdenum	ppm	43	56	
Nickel	ppm	■<1	 <1	
Titanium	ppm	0	0	
Silver	ppm	0	0	
Manganese	ppm	1	3	
Vanadium	ppm	<1	0	

ADDITIVES							
Calcium	ppm	1687	2043				
Magnesium	ppm	486	277				
Zinc	ppm	1109	1291				
Phosphorus	ppm	833	1006				
Barium	ppm	0	0				
Boron	ppm	11	58				



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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. The copper level has decreased, but is still abnormal. All other component wear rates are normal. 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: VOLVO3387 Unique No: 10836848 Signed: Don Baldridge Report Date: 22 Jan 2024

Report Id: VOLVO3387 [WUSCAR] 06065466 (Generated: 01/22/2024 12:58:46) Rev: 1

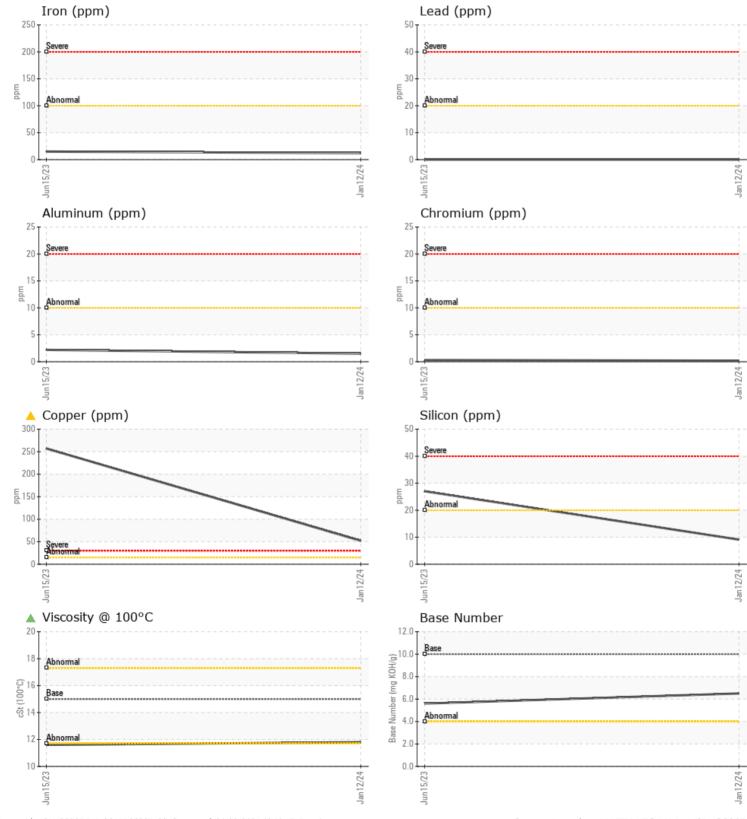
Contact/Location: MATT MITCHAM - VOLVO3387

CONSTRUCTION EQUIPMENT



GRAPHS

VOLVO



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Contact/Location: MATT MITCHAM - VOLVO3387