CONSTRUCTION EQUIPMENT 467 HAMM 0914 - DIESEL ENGINE



Sample No:VCP413815Oil Type:SHELL ROTELLA T 15W40

467

VOLVO

Job No:

SAMPLE INFORMATION VCP413815 Sample Number Sample Date 09 Nov 2023 Machine Hours 2312 Oil Hours 500 Oil Changed Changed NORMAL Sample Status **OIL CONDITION** Visc @ 100°C cSt 13.1 Base Number (BN) mg KOH/g 7.3 Oxidation (PA) % 71 CONTAMINATION

Water	%	NEG	 	
Soot %	%	0.3	 	
Nitration (PA)	%	77	 	
Sulfation (PA)	%	65	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	16	 	
Sodium	ppm	0	 	
Potassium	ppm	5	 	

WEAR METALS

Iron	ppm	35	 	
Copper	ppm	4	 	
Lead	ppm	1	 	
Tin	ppm	0	 	
Aluminum	ppm	6	 	
Chromium	ppm	2	 	
Molybdenum	ppm	170	 	
Nickel	ppm		 	
Titanium	ppm	<1	 	
Silver	ppm	0	 	
Manganese	ppm	□<1	 	
Vanadium	ppm	0	 	

ADDITIVES 1756 Calcium ppm 546 Magnesium ppm Zinc ppm 1144 902 Phosphorus ppm Barium 0 🔲 ppm 112 Boron ppm



TOTAL DEVELOPMENT SOLUTIONS LLC

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Diagnosis

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination 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:
 TOTGAI

 Unique No:
 10751256

 Signed:
 Wes Davis

 Report Date:
 21 Nov 2023

Report Id: TOTGAI [WUSCAR] 06012112 (Generated: 11/21/2023 09:51:30) Rev: 1

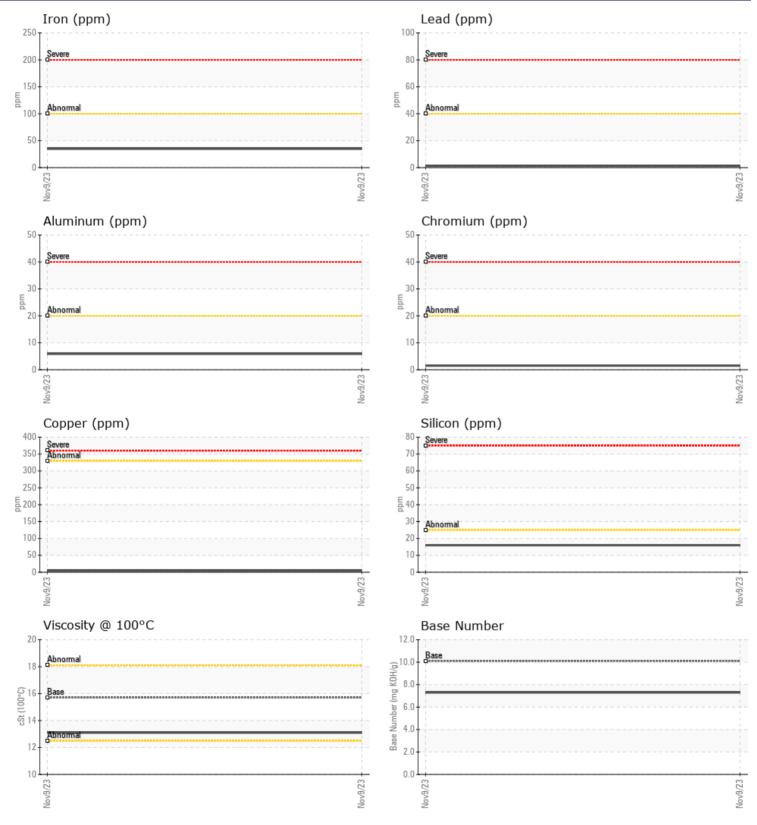
Contact/Location: JOE SEALE - TOTGAI

CONSTRUCTION EQUIPMENT



GRAPHS

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Contact/Location: JOE SEALE - TOTGAI