**CONSTRUCTION EQUIPMENT** VOLVO A40G 353407 - DIESEL ENGINE 2928



Sample No: VCP312514 Oil Type: MOBIL 15W40 Job No: 2928

VOLVO

## 

SAMPLE II	NFORMATION				
Sample Number	-	VCP312514	VCP312575		
Sample Date		06 Nov 2023	03 Oct 2023		
Machine Hours		756	504		
Oil Hours		252	504		
Oil Changed		Changed	Changed		
Sample Status		ABNORMAL	ABNORMAL		
OIL CONDI	TION				
Visc @ 100°C	cSt	<b>12.6</b>	<b>▲</b> 11.1		
Base Number (BN)	mg KOH/g	<b>6.8</b>	5.7		
Oxidation (PA)	%	61	56		
CONTAMI	NATION	_			
Water	%	NEG	NEG		
Soot %	%	<b>0.1</b>	0.2		
Nitration (PA)	%	70	78		
Sulfation (PA)	%	52	51		
Glycol	%	NEG	NEG		
Fuel	%	<1.0	0.5		
Silicon	ppm	9	29		
Sodium	ppm	2	4		
Potassium	ppm	<b>□</b> <1	5		
VOLVO					
WEAR ME	TALS			_	
Iron	ppm	5	22		
Copper	ppm	🔺 113	425		
Lead	ppm	<b>□</b> <1	<b></b> < 1		
Tin	ppm	<b>□</b> <1	3		
Aluminum	ppm	2	4		
Chromium	ppm	0	□ <1		



SCHILDBERG CONSTRUCTION COMPANY

PO BOX 358 GREENFIELD, IA US 50849 Contact: SCOTT ARMSTRONG sarmstrong@schildberg.com T: (641)743-8237 F: (641)743-2486

## Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The copper level has decreased, but is still abnormal. 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.

WEAR N	METALS					
Iron	ppm	5	22			
Copper	ppm	🔺 113	425			
Lead	ppm	■ <1	<1			
Tin	ppm	■ <1	3			
Aluminum	ppm	2	4			
Chromium	ppm	0	<b></b> <1			
Molybdenum	ppm	<b>115</b>	87			
Nickel	ppm	<b></b> <1	2			
Titanium	ppm	<1	<1			
Silver	ppm	0	0			
Manganese	ppm	■ <1	3			
Vanadium	ppm	<1	0			

Calcium	ppm	1421	2122			
Magnesium	ppm	609	48			
Zinc	ppm	957	1189			
Phosphorus	ppm	747	1030			
Barium	ppm	0	0			
Boron	ppm	<b>112</b>	43			

Depot: SCHGRE Unique No: 10755195 Signed: Jonathan Hester Report Date: 27 Nov 2023

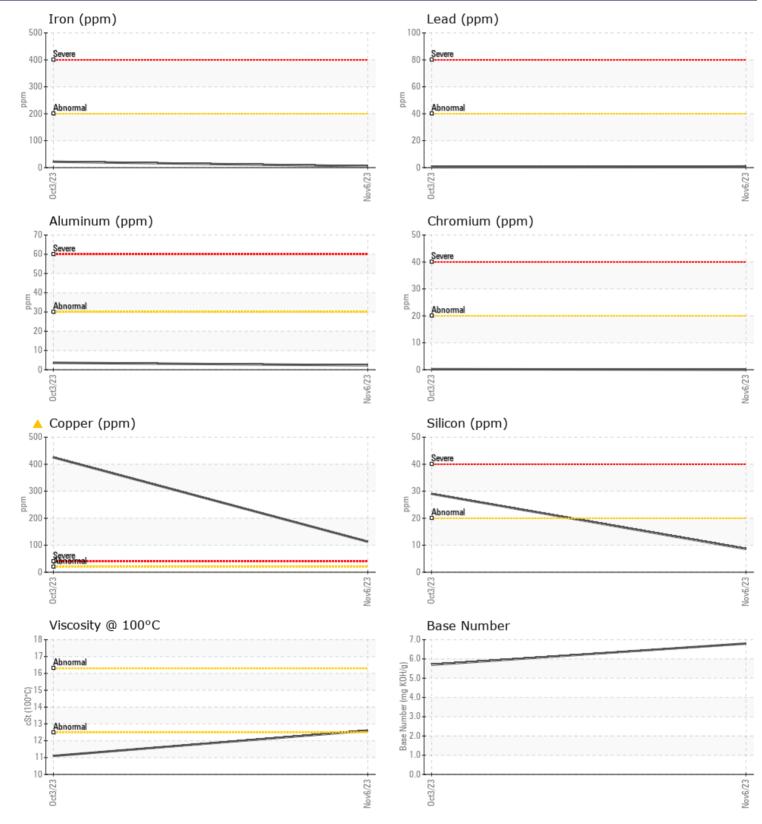
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## **CONSTRUCTION EQUIPMENT**



GRAPHS

VOLVO



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