CONSTRUCTION EQUIPMENT X58513 VOLVO ECR235EL 314594 - DIESEL ENGINE



Sample No:	VCP413467		
Oil Type:			

VOLV

e: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3x58513

Job No:

SAMPLE INFORMATION

Sample Number	-	VCP413467	VCP311651	
Sample Date		05 Sep 2023	06 Apr 2021	
Machine Hours		564	715	
Oil Hours		0	0	
Oil Changed		Changed	N/A	
Sample Status		ABNORMAL	NORMAL	
OIL CONDI				
Visc @ 100°C	cSt	10.99	13.0	
Base Number (BN)	mg KOH/g	5.5		
Oxidation (PA)	%	67	56	
CONTAMIN				
Soot %	%	∎0.1	0.1	
Nitration (PA)	%	82	72	
Sulfation (PA)	%	56	63	
Glycol	%	NEG	NEG	
Fuel	%	0.6	< 1.0	
Silicon	ppm	26	10	
Sodium	ppm	2	0	
Potassium	ppm	5	1	
VOLVO	TAIC			

WEAR METAL

WEAR I	ILIALS			
Iron	ppm	1 2	27	
Copper	ppm	A 356	11	
Lead	ppm	0	2	
Tin	ppm	2	2	
Aluminum	ppm	2	<1	
Chromium	ppm		2	
Molybdenum	ppm	72	2	
Nickel	ppm		8	
Titanium	ppm	0	<1	
Silver	ppm	0	0	
Manganese	ppm	3	5	
Vanadium	ppm	0	0	

ADDITIVES					
Calcium	ppm	2214	2125		
Magnesium	ppm	139	234		
Zinc	ppm	1227	1085		
Phosphorus	ppm	1019	964		
Barium	ppm	0	< 1		
Boron	ppm	45	6		



SCOTT EQUIPMENT COMPANY LLC - Saint Rose PO BOX 997 SAINT ROSE, LA US 70087 Contact: DENISE CORVERS

dcorvers@scottcompanies.com T: (504)461-0961 F: (504)461-0970

Diagnosis

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. 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:SCOSAIUnique No:1064204Signed:JonathanReport Date:15 Sep 2

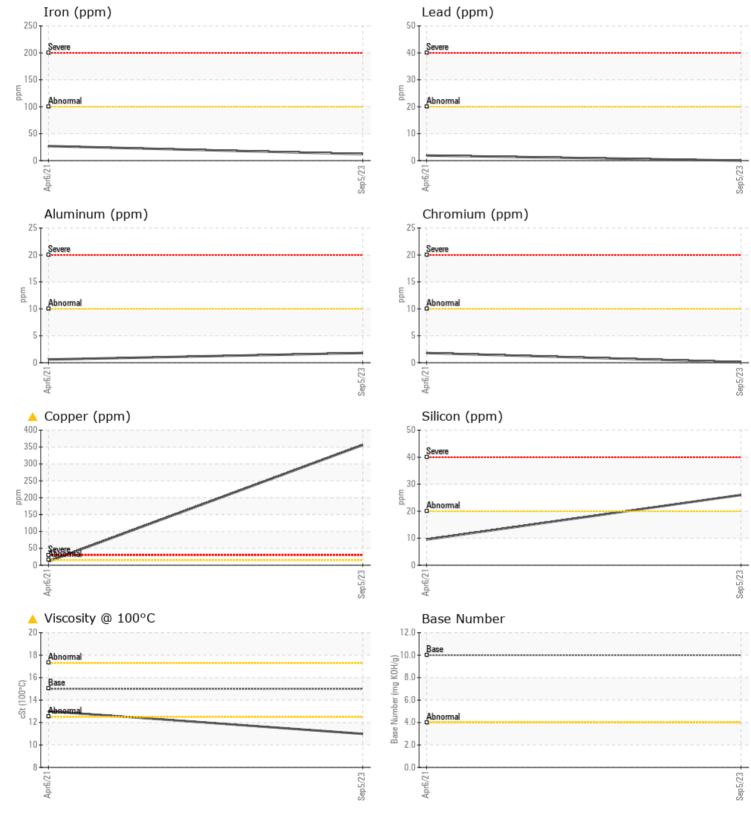
10642046 Jonathan Hester 15 Sep 2023

CONSTRUCTION EQUIPMENT



GRAPHS

VOLVO



Report Id: SCOSAI [WUSCAR] 05946087 (Generated: 09/15/2023 19:11:42) Rev: 1

Contact/Location: DENISE CORVERS - SCOSAI