CONSTRUCTION EQUIPMENT W02007470 VOLVO EC350 314516 - DIESEL ENGINE

Sample No:	VCP418795		
Oil Type:	MOBIL 15W40		
Job No:	W02007470		

VOLVO

SAMPLE INFORMATION

SAMPLE II	AF UKMA HUN			
Sample Number	-	VCP418795	VCP397788	
Sample Date		24 Aug 2023	02 May 2023	
Machine Hours		1005	478	
Oil Hours		500	500	
Oil Changed		Changed	Changed	
Sample Status		ABNORMAL	ABNORMAL	
OIL CONDI	TION			
Visc @ 100°C	cSt	A 11.8	1 0.3	
Base Number (BN)	mg KOH/g	6.3	4.5	
Oxidation (PA)	%	65	63	
CONTAMI	NATION			
Soot %	%		0.1	
Nitration (PA)	%	69	78	
Sulfation (PA)	%	60	53	
Glycol	%	NEG	NEG	
Fuel	%	<1.0	0.8	
Silicon	ppm	10	29	
Sodium	ppm	 <1	3	
Potassium	ppm	0	4	
WEAR ME	TALS			
Iron	ppm	5	10	
C .	l= l-,		10	

Iron	ppm	5	10	
Copper	ppm	<u> </u>	▲ 373	
Lead	ppm	0	0	
Tin	ppm	1	2	
Aluminum	ppm	4	2	
Chromium	ppm	0	 <1	
Molybdenum	ppm	107	82	
Nickel	ppm	0	1	
Titanium	ppm	0	0	
Silver	ppm	0	0	
Manganese	ppm	■<1	3	
Vanadium	ppm	0	0	

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ADDITI	VES			
Calcium	ppm	1853	2241	
Magnesium	ppm	512	21	
Zinc	ppm	1012	1212	
Phosphorus	ppm	830	1003	
Barium	ppm	0	0	
Boron	ppm	151	39	



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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. 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:
 VOLV0002

 Unique No:
 10620530

 Signed:
 Sean Felton

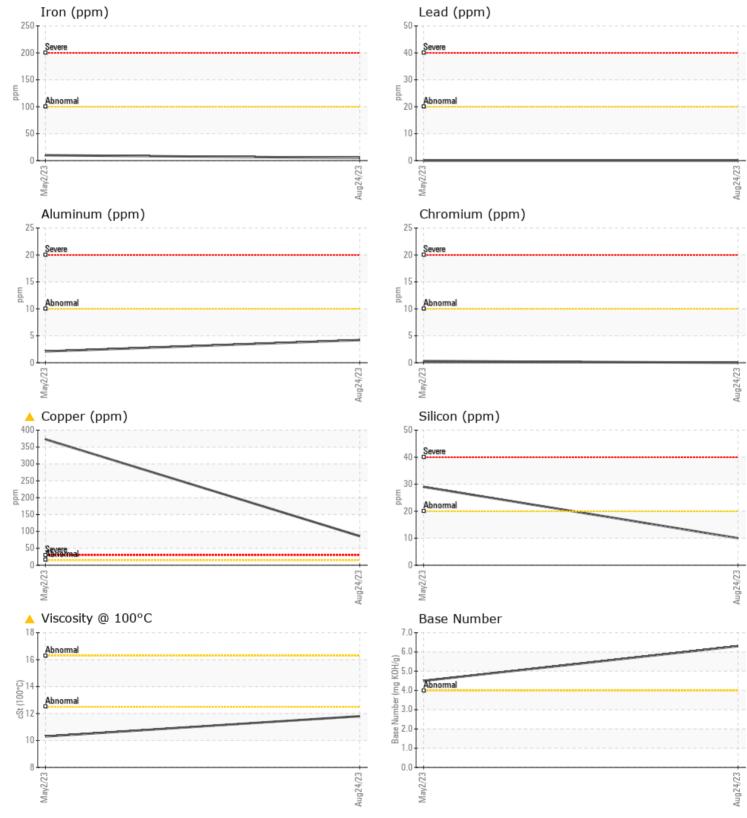
 Report Date:
 28 Aug 2023

CONSTRUCTION EQUIPMENT



GRAPHS

VOLVO



Report Id: VOLVO0002 [WUSCAR] 05935259 (Generated: 08/28/2023 11:02:19) Rev: 1

Contact/Location: MIKE MAYHUGH - VOLVO0002