

CONSTRUCTION EQUIPMENT W0230938 YANMAR SD40 302086 - DIESEL ENGINE



 Sample No:
 VCP428511

 Oil Type:
 YANMAR 15W40

 Job No:
 W0230938

SAMPLE I	FORMATION			
Sample Number		VCP428511	 	
Sample Date		17 Jun 2024	 	
Machine Hours		0	 	
Oil Hours		211	 	
Oil Changed		N/A	 	
Sample Status		ABNORMAL	 	
OIL CONDI	TION			
Visc @ 100°C	cSt	10.4	 	
Base Number (BN)	ma KOH/a	7.2	 	
Oxidation (PA)	%	47	 	
VOLVO				
CONTAMIN	-	-		-
Water	%	NEG	 	
Soot %	%	0.1	 	
Nitration (PA)	%	57	 	
Sulfation (PA)	%	45	 	
Glycol	%	NEG	 	
Fuel	%	A 2.6	 	
Silicon	ppm	4 1	 	
Sodium	ppm	1 4	 	
Potassium	ppm	A 176	 	
VOLVO				
WEAR ME	TALS			
Iron	ppm	20	 	
Copper	ppm	8	 	
Lead	ppm	3	 	
Tin	ppm	2	 	
Aluminum	ppm	4	 	
Chromium	ppm		 	
Molybdenum	ppm	165	 	
Nickel	ppm	1	 	
Titanium	ppm	■ <1	 	
Silver	ppm		 	
Manganese	ppm	1	 	
Vanadium	ppm	<1	 	
VOLVO			 	
Calcium	ppm	2320	 	
Magnesium	ppm	23	 	
Zinc	ppm	863	 	
Phosphorus	ppm	722	 	
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ROMCO INC

1350 NE LOOP 820 FORT WORTH, TX US 76106 Contact: ROB HOLCOMB rholcomb@romco.com T: (817)798-9289 F: (817)626-8983

Diagnosis

We advise that you check for the source of the coolant leak. Check for low coolant level. The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.All component wear rates are normal. Sodium and/or potassium levels are high. Elemental level of silicon (Si) above normal indicating ingress of seal material. Light fuel dilution occurring. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

 Depot:
 VOLVO0081

 Unique No:
 11103651

 Signed:
 Jonathan Hester

 Report Date:
 03 Jul 2024

4

198

ppm

ppm

Barium

Boron

Contact/Location: ROB HOLCOMB - VOLVO0081

CONSTRUCTION EQUIPMENT



GRAPHS

VOLVO

