



CEVICHE CATERPILLAR CEVICHE (S/N NOT GIVEN) - STARBOARD DIESEL ENGINE

Sample No: VPA021872
Oil Type: VOLVO 10W40

SAMPLE INFORMAT	TION			
		VPA021872		
Sample Number		30 Dec 2023	 	
Sample Date Machine Hours		2755	 	
Oil Hours		211	 	
Oil Changed		Not Changd	 	
Sample Status		ABNORMAL	 	
		ABNORIVIAL	 	
OIL CONDITION				
Visc @ 100°C	cSt	12.4	 	
Base Number (BN)	mg KOH/g	■9.3	 	
Oxidation (PA)	%	58	 	
CONTAMINATION				
Water	%	NEG	 	
Soot %	%	NEG ■ 0.2	 	
Nitration (PA)	%	48	 	
Sulfation (PA)	%	54	 	
Glycol	%	NEG	 	
Fuel	%	■0.0	 	
Silicon	ppm	▲ 163	 	
Sodium	ppm	2	 	
Potassium	ppm	- <1	 	
WEAR METALS				
MENU METAT2				
Iron	ppm	■ 4	 	
Copper	ppm	■ 3	 	
Lead	ppm	■0	 	
Tin	ppm	■0	 	
Aluminum	ppm	■0	 	
Chromium	ppm	■0	 	
Molybdenum	ppm	■53	 	
Nickel	ppm	0	 	
Titanium	ppm	0	 	
Silver	ppm	0	 	
Manganese	ppm	0	 	
Vanadium	ppm	0	 	
ZAVITIDDA				
Calcium	ppm	1190	 	
Magnesium	ppm	827	 	
Zinc	ppm	1236	 	
Phosphorus	ppm	■ 961	 	
Barium	ppm	■ 0	 	
Boron	ppm	16	 	
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Outstanding Marine

PO Box 274 GALENA, MD US 21635 Contact: Ronda Bolinger rlwb@verizon.net

F:

Diagnosis

No corrective action is recommended at this time. We recommend an early resample to monitor this condition. All component wear rates are normal. Fuel content negligible. Elemental level of silicon (Si) above normal indicating ingress of seal material. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.

 Depot:
 VP153685

 Unique No:
 10823680

 Signed:
 Jonathan Hester

 Report Date:
 15 Jan 2024

OIL ANALYSIS REPORT



