CONSTRUCTION EQUIPMENT

Sample No:VCP443586Oil Type:VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3Job No:717679 MOSAIC

VOINO

## SAMPLE INFORMATION Sample Number VCP443586 VCP437900 Sample Date 13 Jun 2024 13 Mar 2024 Machine Hours 1197 770 Oil Hours 1197 0 Oil Changed N/A N/A Sample Status ABNORMAL ABNORMAL **OIL CONDITION** 11.0 Visc @ 100°C cSt 12.4 3.9 Base Number (BN) mg KOH/g 7.6 Oxidation (PA) 75 81 % CONTAMINATION NEG Water % NEG Soot % % 0.1 0.1

Nitration (PA)	%	74	94	 
Sulfation (PA)	%	60	65	 
Glycol	%	NEG	NEG	 
Fuel	%	<1.0	0.7	 
Silicon	ppm	8	24	 
Sodium	ppm	3	3	 
Potassium	ppm	■ <1	2	 

## WEAR METALS

	כוחו וויי			
Iron	ppm	6	18	 
Copper	ppm	<u> </u>	<b>A</b> 240	 
Lead	ppm	0	0	 
Tin	ppm	0	2	 
Aluminum	ppm	<b></b> <1	3	 
Chromium	ppm	0	<b></b> <1	 
Molybdenum	ppm	37	81	 
Nickel	ppm	0	2	 
Titanium	ppm	0	0	 
Silver	ppm	0	0	 
Manganese	ppm	■ <1	3	 
Vanadium	ppm	0	0	 

ADDITIVES							
Calcium	ppm	<b>1806</b>	2069				
Magnesium	ppm	367	170				
Zinc	ppm	<b>1015</b>	1144				
Phosphorus	ppm	907	943				
Barium	ppm	0	0				
Boron	ppm	22	9				

ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC

8418 PALM RIVER ROAD TAMPA, FL US 33619 Contact: JOHN FARDELLA john.fardella@altg.com T: (813)630-0077 F: (813)630-2233

## Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level has decreased, but is still abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other component wear rates are normal. 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:
 VOLV00093

 Unique No:
 11126340

 Signed:
 Sean Felton

 Report Date:
 18 Jul 2024

Report Id: VOLVO0093 [WUSCAR] 06237506 (Generated: 07/18/2024 09:38:25) Rev: 1

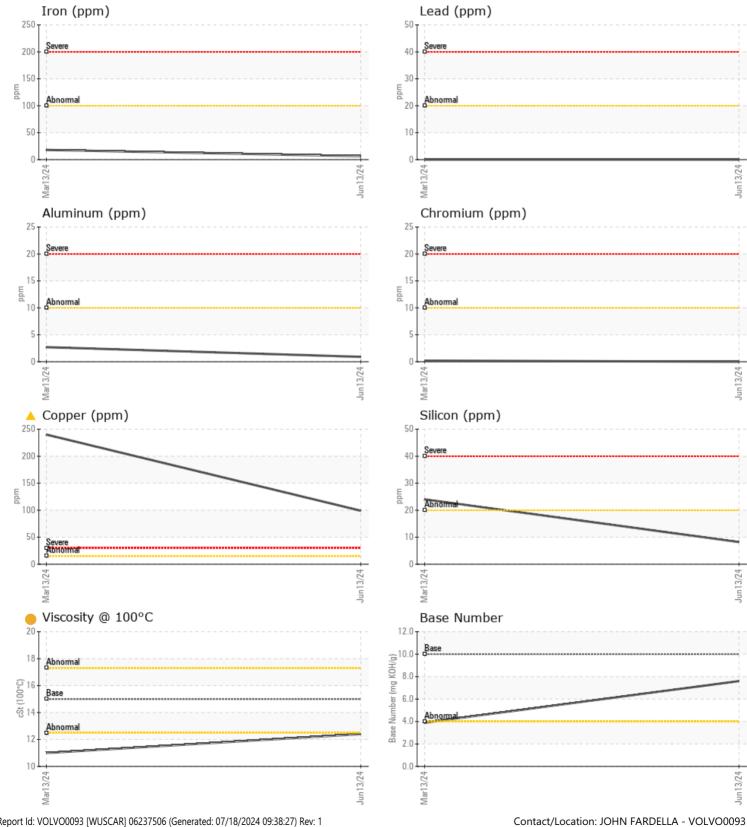
Contact/Location: JOHN FARDELLA - VOLVO0093

## **CONSTRUCTION EQUIPMENT**



GRAPHS

VOLVO



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