# CONSTRUCTION EQUIPMENT

Sample No:VCP431284Oil Type:VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3Job No:621519 SIMS OH

### SAMPLE INFORMATION

VOLVO

Sample Number		VCP431284	VCP328503	 
Sample Date		28 Oct 2023	29 Oct 2021	 
Machine Hours		10627	9540	 
Oil Hours		0	500	 
Oil Changed		Changed	N/A	 
Sample Status		SEVERE	SEVERE	 
OIL CONDI				
		÷		
Visc @ 100°C	cSt	<b>12.0</b>	<b>1</b> 1.4	 
Base Number (BN)	mg KOH/g	■7.1		 
Oxidation (PA)	%	116	161	 
CONTAMI				
	MATION		<u>-</u>	
Soot %	%	<b>1</b>	1.8	 
Nitration (PA)	%	138	158	 
Sulfation (PA)	%	77	92	 
Glycol	%	NEG	NEG	 
Fuel	%	<b>•</b> 10.7	17.7	 
Silicon	ppm	9	9	 
Sodium	ppm	<b>  </b> <1	5	 
Potassium	ppm	<b>4</b>	0	 

OLVO WEA

WEAR N	METALS			
Iron	ppm	<b>72</b>	79	 
Copper	ppm	■4	5	 
Lead	ppm	7	<u> </u>	 
Tin	ppm		<1	 
Aluminum	ppm	🔲 10	6	 
Chromium	ppm	2	3	 
Molybdenum	ppm	62	43	 
Nickel	ppm		0	 
Titanium	ppm	10	4	 
Silver	ppm	0	0	 
Manganese	ppm	<b>1</b>	1	 
Vanadium	ppm	0	<1	 

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ADDITIVES							
Calcium	ppm	<b>1403</b>	1592				
Magnesium	ppm	650	546				
Zinc	ppm	811	956				
Phosphorus	ppm	750	779				
Barium	ppm	5	0				
Boron	ppm	112	59				



#### ALTA CONSTRUCTION EQUIPMENT LLC

G-3283 S. DORT HIGHWAY BURTON, MI US 48529 Contact: SHAWN LEWIS shawn.lewis@altaequipment.com T: (810)347-7011 E:

#### Diagnosis

We advise that you check the fuel injection system. Oil and 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. There is a high amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

 Depot:
 VOLVO5023

 Unique No:
 10728564

 Signed:
 Sean Felton

 Report Date:
 08 Nov 2023

Report Id: VOLVO5023 [WUSCAR] 06000204 (Generated: 11/08/2023 14:05:31) Rev: 1

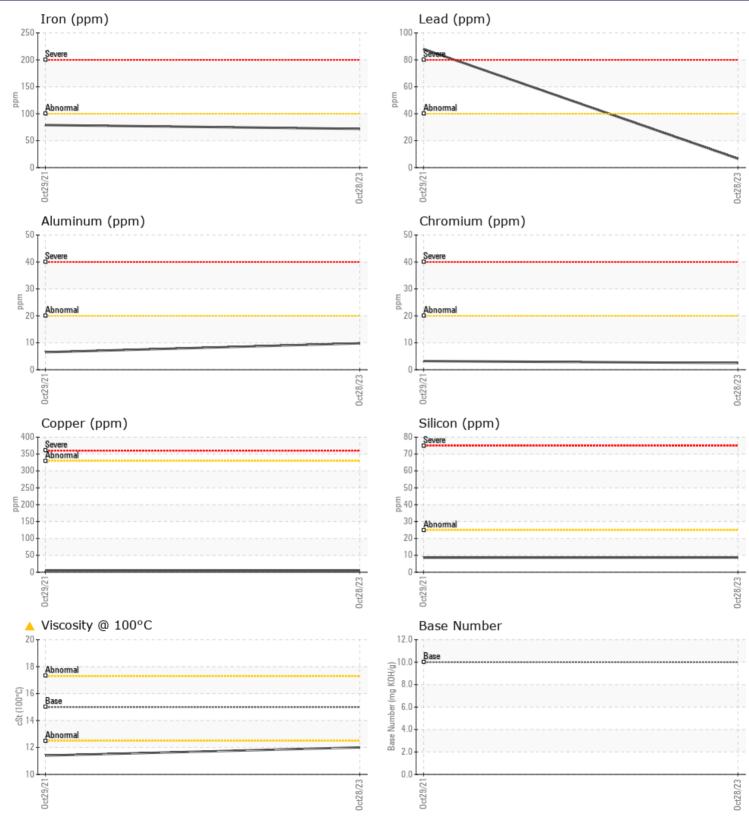
Contact/Location: SHAWN LEWIS - VOLVO5023

## **CONSTRUCTION EQUIPMENT**



GRAPHS

VOLVO



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