## CONSTRUCTION EQUIPMENT SW1028548 LKQ VOLVO L90E 71073 - DIESEL ENGINE

 Sample No:
 VCP437533

 Oil Type:
 DIESEL ENGINE OIL SAE 15W40

 Job No:
 SW1028548 LKO

VOLVO

SAMPLE I	NFORMATION			
Sample Number	-	VCP437533	VCP237017	 
Sample Date		09 Jan 2024	17 Apr 2019	 
Machine Hours		6986	4566	 
Oil Hours		0	0	 
Oil Changed		Changed	Changed	 
Sample Status		SEVERE	NORMAL	 
OIL CONDI	TION			 
Visc @ 100°C	cSt	<u> </u>	13.2	 
Base Number (BN)	mg KOH/g	<b>8.8</b>		 
Oxidation (PA)	%	81	78	 
CONTAMI	NATION	÷		
Water	%	NEG	NEG	 
Soot %	%	0.7	0.1	 
Nitration (PA)	%	73	45	 
Sulfation (PA)	%	61	60	 

Sulfation (PA)	%	61	60	 
Glycol	%	NEG	NEG	 
Fuel	%	🛑 14.8	<1.0	 
Silicon	ppm	<b>11</b>	12	 
Sodium	ppm	3	15	 
Potassium	ppm	∎1	0	 

## WFAR MF1

WEAR I	METALS			
Iron	ppm	21	14	 
Copper	ppm	2	1	 
Lead	ppm	2	2	 
Tin	ppm	<b>□</b> <1	0	 
Aluminum	ppm	2	3	 
Chromium	ppm		<1	 
Molybdenum	ppm	<b>40</b>	33	 
Nickel	ppm	0	<b></b> <1	 
Titanium	ppm	<b>  </b> <1	<1	 
Silver	ppm	0	0	 
Manganese	ppm	■ <1	<1	 
Vanadium	ppm	<1	0	 

ADDITIVES					
Calcium	ppm	1484	1429		
Magnesium	ppm	521	456		
Zinc	ppm	<b>1096</b>	742		
Phosphorus	ppm	924	610		
Barium	ppm	<b></b> <1	0		
Boron	ppm	39	52		



#### ARNOLD MACHINERY COMPANY

4323 EAST WINSLOW AVENUE PHOENIX, AZ US 85040 Contact: RANDY PRZEKURAT randyp@arnoldmachinery.com T: F: (602)414-1904

### Diagnosis

We advise that you check the fuel injection system. The oil 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. Tests confirm the presence of fuel in the oil. The BN result indicates that there is suitable alkalinity remaining 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:
 VOLVO6174

 Unique No:
 10836669

 Signed:
 Wes Davis

 Report Date:
 23 Jan 2024

Report Id: VOLVO6174 [WUSCAR] 06065287 (Generated: 01/23/2024 11:18:22) Rev: 1

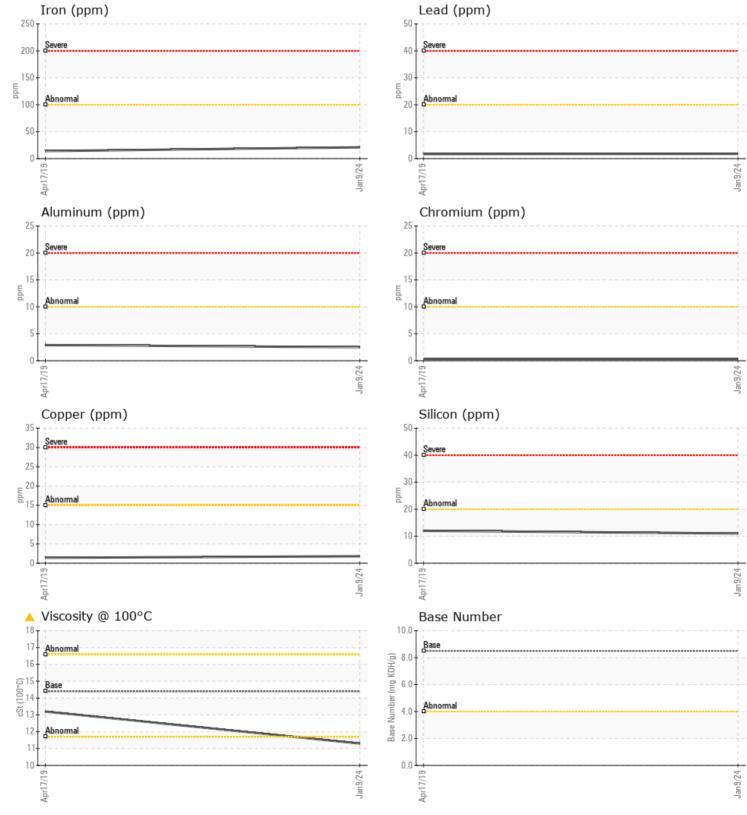
Contact/Location: RANDY PRZEKURAT - VOLVO6174

# **CONSTRUCTION EQUIPMENT**



GRAPHS

VOLVO



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Contact/Location: RANDY PRZEKURAT - VOLVO6174