## CONSTRUCTION EQUIPMENT SW1026704 VOLVO EC380EL 315337 - DIESEL ENGINE

Sample No:	VCP412562
Oil Type:	DIESEL ENGINE OIL SAE 15W40
Job No:	SW1026704

## SAMPLE INFORMATION

VOLVO

Sample Number		VCP412562	 	
Sample Date		15 Nov 2023	 	
Machine Hours		990	 	
Oil Hours		500	 	
Oil Changed		Changed	 	
Sample Status		ABNORMAL	 	
OIL CONDI	TION			
Visc @ 100°C	cSt	<b>12.2</b>	 	
Base Number (BN)	mg KOH/g	■ 7.0	 	
Oxidation (PA)	%	63	 	
CONTAMI	NATION			
Water	%	NEG	 	
Soot %	%	∎0.1		
Nitration (PA)			 	
Mitration (PA)	%	63	 	
Sulfation (PA)	%	_		
. ,		63	 	
Sulfation (PA)	%	63 57	 	
Sulfation (PA) Glycol	% %	63 57 NEG	 	
Sulfation (PA) Glycol Fuel	% % %	63 57 NEG 1.0	   	 

OLVO

VEAR I	METALS			
Iron	ppm	□4	 	
Copper	ppm	<u> </u>	 	
Lead	ppm	□<1	 	
Tin	ppm	□<1	 	
Aluminum	ppm	<b>1</b>	 	
Chromium	ppm	0	 	
Molybdenum	ppm	61	 	
Nickel	ppm	0	 	
Titanium	ppm	□<1	 	
Silver	ppm	0	 	
Manganese	ppm	□<1	 	
Vanadium	ppm	<1	 	

ADDITIVES					
Calcium	ppm	1785			
Magnesium	ppm	<b>409</b>			
Zinc	ppm	1249			
Phosphorus	ppm	<b>1087</b>			
Barium	ppm	0			
Boron	ppm	3			



#### ARNOLD MACHINERY COMPANY

2975 WEST 2100 SOUTH SALT LAKE CITY, UT US 84119 Contact: TJ LARK tlark@arnoldmachinery.com T: (801)972-4000 F: (801)975-9434

### Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.The copper level is abnormal. All other metal levels are typical for a new component breaking in. Fuel content negligible. 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:
 VOLV08770

 Unique No:
 10754010

 Signed:
 Jonathan Hester

 Report Date:
 30 Nov 2023

Report Id: VOLVO8770 [WUSCAR] 06014866 (Generated: 11/30/2023 14:47:20) Rev: 1

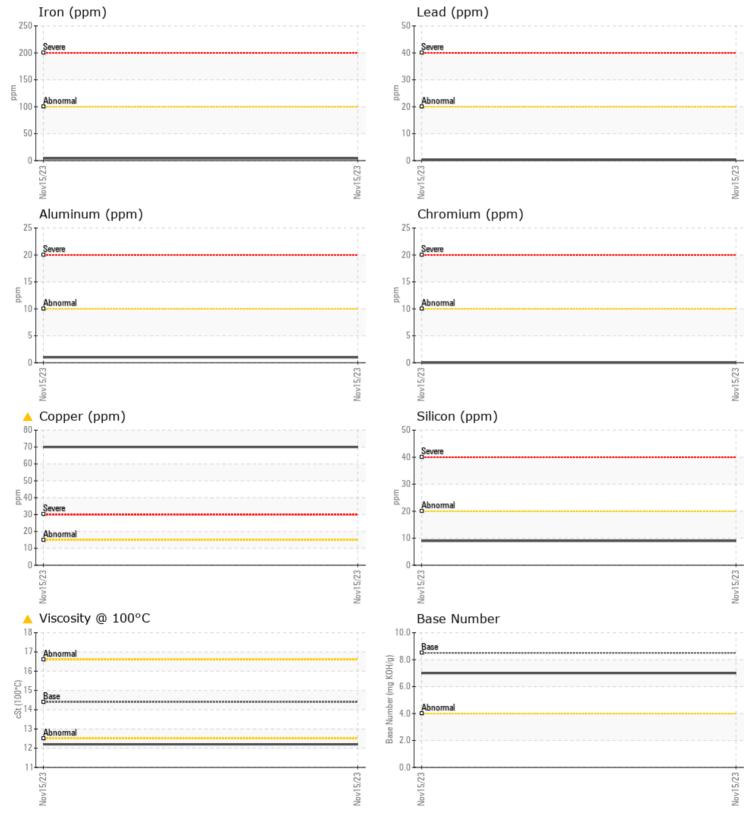
Contact/Location: TJ LARK - VOLVO8770

# **CONSTRUCTION EQUIPMENT**



GRAPHS

VOLVO



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