## CONSTRUCTION EQUIPMENT SW-20222-2 MAVERICK VOLVO L220H 3371 - DIESEL ENGINE

Sample No: VCP418718

VOLVO

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

SW-20222-2 MAVERICK

Job No:

## SAMPLE INFORMATION Sample Number VCP418718 Sample Date 11 Jul 2023 Machine Hours 2147 Oil Hours 600 Oil Changed Changed Sample Status ABNORMAL **OIL CONDITION** Visc @ 100°C cSt 12.5 Base Number (BN) mg KOH/g 7.4 Oxidation (PA) 68 % CONTAMINATION % 0.3 Soot % Nitration (PA) % 76 Sulfation (PA) % 58

 Sulfation (PA)
 %
 58
 -- -- 

 Glycol
 %
 NEG
 -- -- 

 Fuel
 %
 <1.0</td>
 -- -- 

 Silicon
 ppm
 7
 -- -- 

 Sodium
 ppm
 2
 -- -- 

 Potassium
 ppm
 2
 -- --

WEAR METALS

	ייב ו אנש			
Iron	ppm	<b>10</b>	 	
Copper	ppm	<b>4</b> 158	 	
Lead	ppm	2	 	
Tin	ppm	<b>1</b>	 	
Aluminum	ppm	2	 	
Chromium	ppm	0	 	
Molybdenum	ppm	63	 	
Nickel	ppm		 	
Titanium	ppm	<1	 	
Silver	ppm	0	 	
Manganese	ppm	<b>1</b>	 	
Vanadium	ppm	<1	 	

Vanadid

ADDITIVES									
Calcium	ppm	1382							
Magnesium	ppm	813							
Zinc	ppm	1231							
Phosphorus	ppm	995							
Barium	ppm	0							
Boron	ppm	20							

ARNOLD MACHINERY COMPANY

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

## 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 is 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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

 Depot:
 VOLVO8770

 Unique No:
 10562276

 Signed:
 Don Baldridge

 Report Date:
 19 Jul 2023

Report Id: VOLVO8770 [WUSCAR] 05900920 (Generated: 07/19/2023 13:43:04) Rev: 1

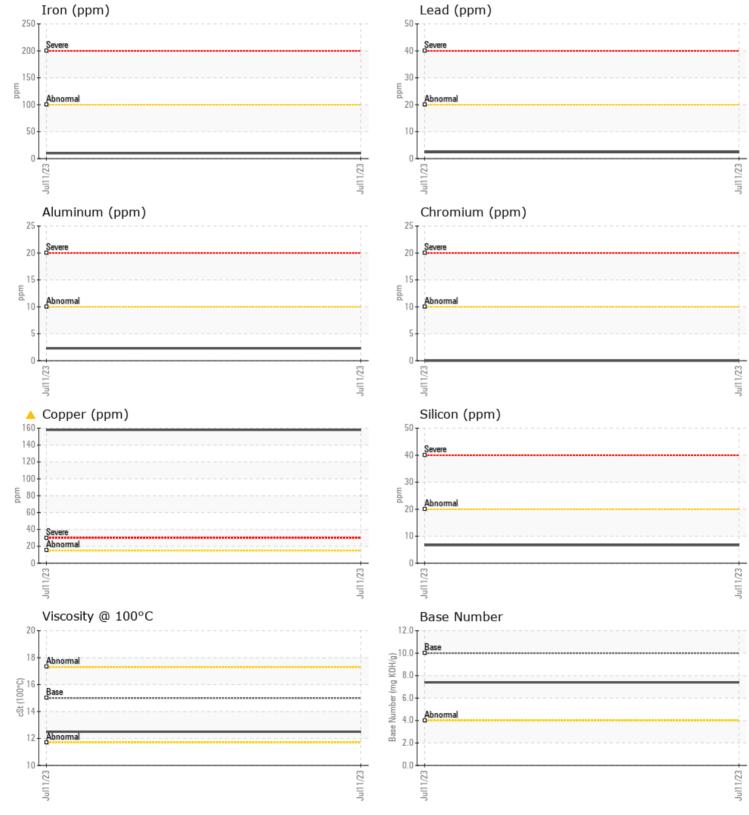
Contact/Location: TONY PAYAN - VOLVO8770

## **CONSTRUCTION EQUIPMENT**



GRAPHS

VOLVO



Report Id: VOLVO8770 [WUSCAR] 05900920 (Generated: 07/19/2023 13:43:06) Rev: 1

Contact/Location: TONY PAYAN - VOLVO8770