

## CONSTRUCTION EQUIPMENT A11843 VOLVO L220H 2992 - DIESEL ENGINE



Sample No: VCP442533
Oil Type: MOBIL 15W40

**Job No:** A11843

SAMPLE	INFORMATION				
Sample Number		VCP442533	VCP416708	VCP421959	VCP404462
Sample Date		08 Jan 2024	10 Aug 2023	04 May 2023	11 Apr 2023
Machine Hours		16170	14860	13949	13730
Oil Hours		500	500	0	500
Oil Changed		Changed	Changed	N/A	Changed
Sample Status		ABNORMAL	ABNORMAL	NORMAL	SEVERE
Sample Status		7151161111712	/ IDI (OTAL)	TTOTAL	OLV LIKE
VOLVO					
OIL CON	DITION				
Visc @ 100°C	cSt	<b>12.2</b>	12.7	<b>13.1</b>	<b>12.5</b>
Base Number (BN	ng KOH/g	<b>4.4</b>	<b>5.0</b>	■7.1	<b>5.7</b>
Oxidation (PA)	%	52	47	38	45
CUNTAN	INATION				
_					
Water	%	NEG	NEG	NEG	NEG
Soot %	%	■ 0.2	□ 0.2	□ 0.1	■ 0.1
Nitration (PA)	%	66	61	51	58
Sulfation (PA)	%	60	57	44	46
Glycol	%	NEG	NEG	NEG	0.10
Fuel	%	■ 0.3	<1.0	<1.0	<1.0
Silicon	ppm	<u>^</u> 29	<u>^</u> 21	<b>1</b> 1	<b>1</b> 1
Sodium	ppm	<b>■</b> <1	0	<b>0</b>	<b>▲</b> 568
Potassium	ppm	<b>2</b>	■3	■3	<u></u> ▲ 268
WEAR M	IFTAI S				
_					
Iron	ppm	<b>6</b>	<b>6</b>	2	<b>1</b> 3
Copper	ppm	<b>■&lt;1</b>	1	<b>0</b>	2
Lead 	ppm	<b>1</b>	<b>-</b> <1	<b>-</b> <1	0
Tin	ppm	<b>□</b> <1	<b>-</b> <1	<b></b> <1	0
Aluminum	ppm	<b>2</b>	<b>6</b>	0	<b>6</b>
Chromium	ppm	■0	<b>-</b> <1	<b></b> <1	<b></b> <1
Molybdenum	ppm	■26	□14	□ 14	■99
Nickel	ppm	<b>■</b> <1	<b>2</b>	<b>-</b> <1	<b>0</b>
Titanium	ppm	<1	<1	<1	0
Silver	ppm	■0	<b>2</b>	□ 0	<b>-</b> <1
Manganese	ppm	<b>■</b> <1	<1	<b>-</b> <1	< 1
Vanadium	ppm	0	<1	<1	0

**2111** 

**135** 

**1078** 

871

**0** 

2074

**143** 

**1098** 

913

**0** 

**6** 

1128

■876

**1216** 

**1022** 

0

**5**3



## WHEELABRATOR

1201 NEW FORD MILL RD MORRISVILLE, PA US 19067 Contact: FRANK BOLTON fbolton@wtienergy.com T: (215)428-7915 F:

## 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.All component wear rates are normal. Fuel content negligible. Elemental level of silicon (Si) above normal indicating ingress of seal material. 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:WHEMORUnique No:10836330Signed:Doug BogartReport Date:24 Jan 2024

**1687** 

■369

**1107** 

**900** 

**0** 

**7** 

**ADDITIVES** 

ppm

ppm

ppm

ppm

ppm

ppm

Calcium

Zinc

Barium

Boron

Magnesium

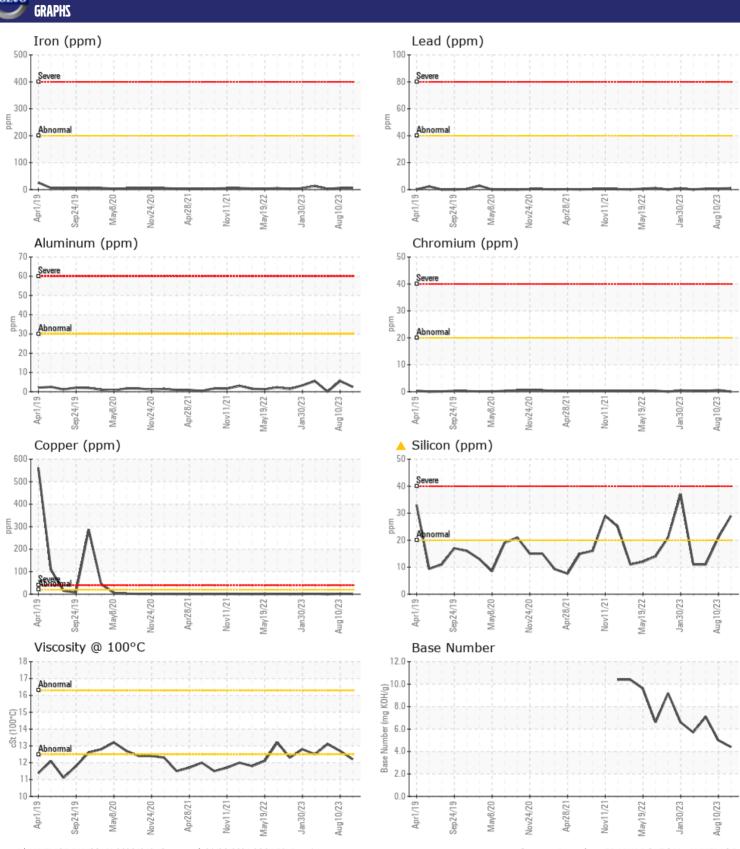
Phosphorus



## **CONSTRUCTION EQUIPMENT**







Report Id: WHEMOR [WUSCAR] 06064948 (Generated: 01/26/2024 06:34:58) Rev: 1

Contact/Location: FRANK BOLTON - WHEMOR