

## **CONSTRUCTION EQUIPMENT**

TRANSPORT LEASING VOLVO L220H 3569 - DIESEL ENGINE

Sample No: VCP440844 Oil Type: **MOBIL 15W40** 

Job No: TRANSPORT LEASING

SAMPLE II	NFORMATION			
Sample Number		VCP440844	VCP401929	 
Sample Date		01 Feb 2024	18 Dec 2023	 
Machine Hours		968	544	 
Oil Hours		0	544	 
Oil Changed		Changed	Changed	 
Sample Status		ATTENTION	ABNORMAL	 
OIL CONDI	TION			
		A 42.4	A 11.2	
Visc @ 100°C	cSt	<b>12.1</b>	<b>▲</b> 11.2	 
Base Number (BN)		■7.2	<b>■</b> 6.2	 
Oxidation (PA)	%	58	61	 
VOLVO				
CONTAMIN	IATION			
Water	%	NEG	NEG	 
Soot %	%	□ 0.2	0.2	 
Nitration (PA)	%	63	71	 
Sulfation (PA)	%	52	53	 
Glycol	%	NEG	NEG	 
Fuel	%	<1.0	0.1	 
Silicon	ppm	■9	<b>2</b> 2	 
Sodium	ppm	■0	1	 
Potassium	ppm	<b>2</b>	<b>4</b>	 
	r r	_	_	
WEAR ME	TAIC			
_			<u> </u>	
Iron	ppm	<b>8</b>	<b>1</b> 3	 
Copper	ppm	<u>^</u> 65	<b>△</b> 322	 
Lead	ppm	<b>1</b>	<b>-</b> <1	 
Tin	ppm	<b>2</b>	2	 
Aluminum	ppm	■3	_2	 
Chromium	ppm	<b>■</b> <1	<b>-</b> <1	 
Molybdenum	ppm	■82	■85	 
Nickel	ppm	<b>1</b>	<b>-</b> <1	 
Titanium	ppm	<1	0	 
Silver	ppm	<b>■</b> <1	0	 
Manganese	ppm	<b>2</b>	_2	 
Vanadium	ppm	<1	0	 
VOLVO				
ADDITIVE:	5			
Calcium		<b>1227</b>	<b>□</b> 2115	 
Magnesium	ppm	796	53	 
iviagnesium	ppiii	<b>130</b>		 

**1178** 

**950** 

**0** 

**47** 



#### ARNOLD MACHINERY COMPANY

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### Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. The copper level has decreased, but is still abnormal. 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: VOLVO1835 **Unique No:** 10869636 Signed: Jonathan Hester Report Date: 09 Feb 2024

**1141** 

**958** 

**0** 

**31** 

ppm

ppm

ppm

ppm

Zinc

Barium

Boron

Phosphorus



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