



# CONSTRUCTION EQUIPMENT

## TRIPLE M 37073 VOLVO L220H 2461 - DIESEL ENGINE



**Sample No:** VCP394871  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 37073



### SAMPLE INFORMATION

Sample Number	<b>VCP394871</b>	VCP334488	VCP299072	VCP274049
Sample Date	<b>19 Jul 2023</b>	01 Nov 2021	19 Jul 2021	11 Feb 2021
Machine Hours	<b>22253</b>	17852	16879	16340
Oil Hours	<b>2000</b>	500	500	500
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**STRONGCO EQUIPMENT (CE)**  
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### OIL CONDITION

Visc @ 100°C	cSt	---	12.2	12.3	12.8
Oxidation (PA)	%	---	88	84	80

### CONTAMINATION

Soot %	%	---	0	0	0
Nitration (PA)	%	---	62	58	64
Sulfation (PA)	%	---	66	63	60
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	0.8	<1.0
Silicon	ppm	<b>6</b>	4	5	6
Sodium	ppm	<b>3</b>	2	2	2
Potassium	ppm	<b>&lt;1</b>	<1	<1	0

### Diagnosis

This is a baseline read-out on the submitted sample. All component wear rates are normal. Insufficient sample was received to conduct all the routine laboratory tests. {not applicable}

### WEAR METALS

Iron	ppm	<b>9</b>	8	5	5
Copper	ppm	<b>2</b>	1	<1	<1
Lead	ppm	<b>1</b>	1	<1	<1
Tin	ppm	<b>&lt;1</b>	<1	<1	<1
Aluminum	ppm	<b>4</b>	2	2	2
Chromium	ppm	<b>&lt;1</b>	<1	0	<1
Molybdenum	ppm	<b>39</b>	42	38	40
Nickel	ppm	<b>&lt;1</b>	<1	<1	<1
Titanium	ppm	<b>&lt;1</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0

### ADDITIVES

Calcium	ppm	<b>1529</b>	1631	1601	1489
Magnesium	ppm	<b>506</b>	584	507	563
Zinc	ppm	<b>1024</b>	1161	1071	1127
Phosphorus	ppm	<b>911</b>	1011	942	887
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>22</b>	22	42	24

**Depot:** VOLVO0252  
**Unique No:** 5616446  
**Signed:** Kevin Marson  
**Report Date:** 21 Jul 2023

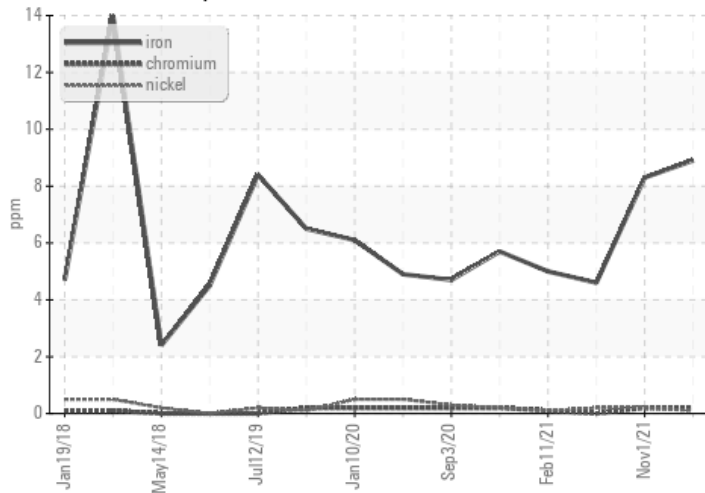


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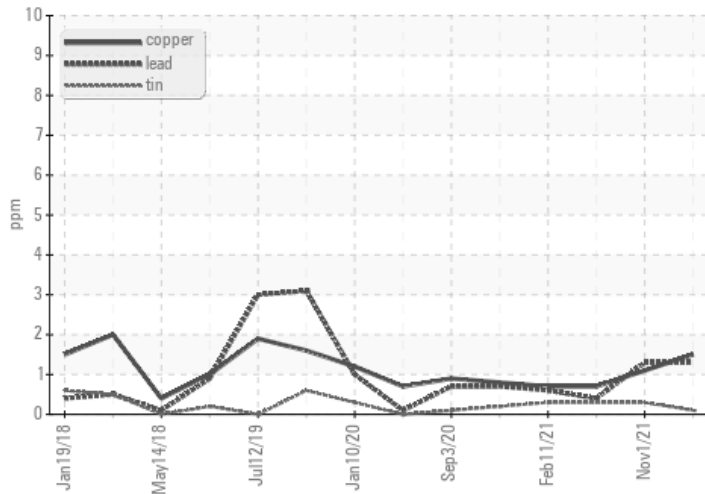


## GRAPHS

### Ferrous Alloys



### Non-ferrous Metals



### Viscosity @ 100°C

