



# CONSTRUCTION EQUIPMENT

TRIPLE M METAL LP 396735 VOLVO L220H 2464 - DIESEL ENGINE



**Sample No:** VCP430033  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 396735



## SAMPLE INFORMATION

Sample Number	<b>VCP430033</b>	VCP392129	VCP380157	VCP333655
Sample Date	<b>01 Mar 2024</b>	03 Jan 2024	28 Aug 2023	26 Jul 2022
Machine Hours	<b>23932</b>	23638	22993	20846
Oil Hours	<b>0</b>	0	500	0
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	<b>13.1</b>	12.7	13.3	12.8
Oxidation (PA)	%	<b>78</b>	83	53	33



## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0</b>	0	0	0
Nitration (PA)	%	<b>50</b>	61	67	31
Sulfation (PA)	%	<b>60</b>	62	59	41
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	1.1	<1.0	<1.0
Silicon	ppm	<b>3</b>	3	4	3
Sodium	ppm	<b>2</b>	2	3	3
Potassium	ppm	<b>&lt;1</b>	0	2	<1

### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.



## WEAR METALS

Iron	ppm	<b>4</b>	6	8	5
Copper	ppm	<b>&lt;1</b>	<1	<1	<1
Lead	ppm	<b>0</b>	<1	<1	<1
Tin	ppm	<b>0</b>	0	0	<1
Aluminum	ppm	<b>1</b>	2	2	3
Chromium	ppm	<b>0</b>	0	0	0
Molybdenum	ppm	<b>40</b>	36	6	44
Nickel	ppm	<b>0</b>	<1	0	<1
Titanium	ppm	<b>0</b>	0	2	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	0	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>1580</b>	1691	1405	1715
Magnesium	ppm	<b>549</b>	508	695	554
Zinc	ppm	<b>1048</b>	1065	1183	1126
Phosphorus	ppm	<b>916</b>	913	1100	960
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>43</b>	34	45	35

**Depot:** VOLVO0252  
**Unique No:** 5737584  
**Signed:** Wes Davis  
**Report Date:** 07 Mar 2024



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## GRAPHS

