



# CONSTRUCTION EQUIPMENT

X48356 VOLVO L180H 005706 - DIESEL ENGINE



**Sample No:** VCP430462  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:** X48356



## SAMPLE INFORMATION

Sample Number	<b>VCP430462</b>	VCP435271	VCP407262	---
Sample Date	<b>05 Jan 2024</b>	24 Oct 2023	28 Apr 2023	---
Machine Hours	<b>2077</b>	1491	597	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>N/A</b>	N/A	N/A	---
Sample Status	<b>ABNORMAL</b>	ABNORMAL	ABNORMAL	---

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## OIL CONDITION

Visc @ 100°C	cSt	<b>12.8</b>	12.9	11.4	---
Base Number (BN)	mg KOH/g	<b>6.7</b>	8.3	5.3	---
Oxidation (PA)	%	<b>82</b>	76	58	---

## Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level has decreased, but is still abnormal. 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.



## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Soot %	%	<b>0.3</b>	0.2	0.1	---
Nitration (PA)	%	<b>83</b>	66	73	---
Sulfation (PA)	%	<b>63</b>	61	49	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	0.4	---
Silicon	ppm	<b>7</b>	12	24	---
Sodium	ppm	<b>3</b>	4	3	---
Potassium	ppm	<b>3</b>	4	7	---



## WEAR METALS

Iron	ppm	<b>9</b>	9	12	---
Copper	ppm	<b>44</b>	56	364	---
Lead	ppm	<b>&lt;1</b>	0	4	---
Tin	ppm	<b>&lt;1</b>	<1	2	---
Aluminum	ppm	<b>&lt;1</b>	3	3	---
Chromium	ppm	<b>0</b>	<1	<1	---
Molybdenum	ppm	<b>45</b>	48	88	---
Nickel	ppm	<b>&lt;1</b>	1	<1	---
Titanium	ppm	<b>0</b>	<1	<1	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>&lt;1</b>	<1	3	---
Vanadium	ppm	<b>0</b>	<1	0	---



## ADDITIVES

Calcium	ppm	<b>1575</b>	1509	2259	---
Magnesium	ppm	<b>536</b>	563	21	---
Zinc	ppm	<b>1200</b>	1200	1199	---
Phosphorus	ppm	<b>807</b>	971	1028	---
Barium	ppm	<b>0</b>	<1	0	---
Boron	ppm	<b>10</b>	25	47	---

**Depot:** VOLVO6244  
**Unique No:** 10829138  
**Signed:** Don Baldrige  
**Report Date:** 12 Jan 2024



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## GRAPHS

