



# CONSTRUCTION EQUIPMENT

X59518 VOLVO L180H 5662 - DIESEL ENGINE



**Sample No:** VCP438282  
**Oil Type:** DIESEL ENGINE OIL SAE 30  
**Job No:** X59518



## SAMPLE INFORMATION

Sample Number	VCP438282	VCP405793	---	---
Sample Date	24 Apr 2024	19 Oct 2023	---	---
Machine Hours	1261	472	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	N/A	---	---
Sample Status	ABNORMAL	ABNORMAL	---	---

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## OIL CONDITION

Visc @ 100°C	cSt	█ 12.4	█ 11.0	---	---
Base Number (BN)	mg KOH/g	█ 7.9	█ 5.8	---	---
Oxidation (PA)	%	83	58	---	---



## CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.2	█ 0.1	---	---
Nitration (PA)	%	72	77	---	---
Sulfation (PA)	%	63	53	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	█ 0.5	---	---
Silicon	ppm	█ 7	█ 24	---	---
Sodium	ppm	█ 2	█ 4	---	---
Potassium	ppm	█ 1	█ 6	---	---



## WEAR METALS

Iron	ppm	█ 10	█ 10	---	---
Copper	ppm	▲ 58	▲ 255	---	---
Lead	ppm	█ <1	█ 2	---	---
Tin	ppm	█ 1	█ 3	---	---
Aluminum	ppm	█ <1	█ 3	---	---
Chromium	ppm	█ 0	█ 0	---	---
Molybdenum	ppm	█ 41	█ 83	---	---
Nickel	ppm	█ 0	█ 1	---	---
Titanium	ppm	█ 0	█ 0	---	---
Silver	ppm	█ 0	█ <1	---	---
Manganese	ppm	█ 1	█ 3	---	---
Vanadium	ppm	<1	0	---	---



## ADDITIVES

Calcium	ppm	█ 1849	█ 2118	---	---
Magnesium	ppm	█ 398	█ 18	---	---
Zinc	ppm	█ 1158	█ 1259	---	---
Phosphorus	ppm	█ 959	█ 1035	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 44	█ 43	---	---

## Diagnosis

No corrective action is recommended at this time. Oil and filter 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. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). 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 suitable for further service.

**Depot:** SCOSAI  
**Unique No:** 11003239  
**Signed:** Sean Felton  
**Report Date:** 01 May 2024



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## GRAPHS

