



# CONSTRUCTION EQUIPMENT

## VOLVO L180H 5633 - DIESEL ENGINE



**Sample No:** VCP409834  
**Oil Type:** SUNOCO HI VIS 15W40  
**Job No:**



### SAMPLE INFORMATION

Sample Number	VCP409834	VCP239272	VCP239273	VCP239208
Sample Date	06 Apr 2024	01 Feb 2023	04 Nov 2022	05 Sep 2022
Machine Hours	4242	1401	667	231
Oil Hours	500	0	0	231
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	ABNORMAL	ABNORMAL	ABNORMAL

### COASTAL DISTRIBUTION

1633 NEW HIGHWAY  
 FARMINGDALE, NY  
 US 11735  
 Contact: DAMIEN LOHSE  
 dlohse@wintersbros.com  
 T: (631)756-2000  
 F: (631)756-2001



### OIL CONDITION

Visc @ 100°C	cSt	13.0	12.7	11.2	11.3
Base Number (BN)	mg KOH/g	5.9	4.7	6.4	7.8
Oxidation (PA)	%	66	84	66	59



### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.1	0.1	0.1
Nitration (PA)	%	72	106	88	72
Sulfation (PA)	%	58	69	59	54
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	0.6
Silicon	ppm	5	8	23	20
Sodium	ppm	2	3	3	1
Potassium	ppm	<1	<1	2	0



### WEAR METALS

Iron	ppm	6	5	10	8
Copper	ppm	6	64	345	90
Lead	ppm	0	2	2	3
Tin	ppm	0	1	2	2
Aluminum	ppm	0	1	2	2
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	68	87	86	82
Nickel	ppm	0	<1	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	0
Manganese	ppm	0	<1	2	2
Vanadium	ppm	0	0	0	0



### ADDITIVES

Calcium	ppm	1352	2109	2209	1989
Magnesium	ppm	859	45	15	25
Zinc	ppm	1255	1241	1069	1142
Phosphorus	ppm	1056	994	971	940
Barium	ppm	0	0	0	<1
Boron	ppm	0	57	38	68

### 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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

**Depot:** COAFAR  
**Unique No:** 10977090  
**Signed:** Wes Davis  
**Report Date:** 15 Apr 2024



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## GRAPHS

