



CONSTRUCTION EQUIPMENT

VOLVO EC480EL 314547 - DIESEL ENGINE



Sample No: VCP409831
Oil Type: SUNOCO HI VIS 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP409831	VCP239207	VCP239420	---
Sample Date	06 Apr 2024	18 Jan 2023	13 Jan 2022	---
Machine Hours	5364	0	661	---
Oil Hours	417	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	ABNORMAL	ATTENTION	ABNORMAL	---

COASTAL DISTRIBUTION

1633 NEW HIGHWAY
 FARMINGDALE, NY
 US 11735
 Contact: DAMIEN LOHSE
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OIL CONDITION

Visc @ 100°C	cSt	■ 11.6	● 11.5	■ 12.7	---
Base Number (BN)	mg KOH/g	▲ 2.9	■ 5.2	■ 5.9	---
Oxidation (PA)	%	103	66	70	---

Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Elemental level of silicon (Si) above normal indicating ingress of seal material. The BN level is low.



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	■ 0.1	■ 0.1	■ 0.1	---
Nitration (PA)	%	95	75	73	---
Sulfation (PA)	%	70	58	63	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	■ 1.3	<1.0	---
Silicon	ppm	▲ 25	■ 14	■ 22	---
Sodium	ppm	■ 5	■ 1	■ 2	---
Potassium	ppm	■ 2	■ 1	■ 3	---



WEAR METALS

Iron	ppm	■ 13	■ 6	■ 14	---
Copper	ppm	■ 10	■ 13	▲ 307	---
Lead	ppm	■ 3	■ 2	■ 1	---
Tin	ppm	■ 0	■ <1	■ 3	---
Aluminum	ppm	■ <1	■ 2	■ 3	---
Chromium	ppm	■ 0	■ <1	■ <1	---
Molybdenum	ppm	■ 66	■ 88	■ 27	---
Nickel	ppm	■ 0	■ 0	■ <1	---
Titanium	ppm	0	0	■ <1	---
Silver	ppm	■ 0	■ 0	■ <1	---
Manganese	ppm	0	■ <1	■ 2	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	■ 1338	■ 1949	■ 2356	---
Magnesium	ppm	■ 831	■ 164	■ 69	---
Zinc	ppm	■ 1254	■ 1136	■ 1081	---
Phosphorus	ppm	■ 1046	■ 949	■ 947	---
Barium	ppm	■ 0	■ 2	■ <1	---
Boron	ppm	■ 0	■ 28	■ 26	---

Depot: COAFAR
Unique No: 10977091
Signed: Sean Felton
Report Date: 15 Apr 2024



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GRAPHS

