



CONSTRUCTION EQUIPMENT

VOLVO EC480EL 314022 - DIESEL ENGINE



Sample No: VCP440392
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP440392	VCP270465	VCP265185	---
Sample Date	01 Feb 2024	18 Feb 2020	27 Nov 2019	---
Machine Hours	2518	1219	730	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	---

ALTA EQUIPMENT COMPANY
 5151 DR MARTIN LUTHER KING BLVD
 FORT MYERS, FL
 US 33905
 Contact: TODD LARK
 tlark@altaequipfl.com
 T:
 F: (239)481-3302



OIL CONDITION

Visc @ 100°C	cSt	12.9	12.5	12.4	---
Base Number (BN)	mg KOH/g	7.4	---	---	---
Oxidation (PA)	%	59	71	74	---



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.1	0.1	0.1	---
Nitration (PA)	%	56	79	69	---
Sulfation (PA)	%	56	60	59	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	8	10	25	---
Sodium	ppm	2	3	3	---
Potassium	ppm	1	2	0	---



WEAR METALS

Iron	ppm	29	7	15	---
Copper	ppm	5	72	244	---
Lead	ppm	0	<1	<1	---
Tin	ppm	<1	<1	0	---
Aluminum	ppm	20	1	3	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	82	13	13	---
Nickel	ppm	0	<1	<1	---
Titanium	ppm	1	0	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	0	<1	2	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	1409	1458	2142	---
Magnesium	ppm	469	563	103	---
Zinc	ppm	1221	759	1051	---
Phosphorus	ppm	1045	675	802	---
Barium	ppm	0	0	0	---
Boron	ppm	306	16	12	---

Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. The aluminum level is 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.

Depot: VOLVO0090
Unique No: 10861597
Signed: Sean Felton
Report Date: 06 Feb 2024



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GRAPHS

