



CONSTRUCTION EQUIPMENT

IMPORT AUTO VOLVO EC220E 310953 - DIESEL ENGINE



Sample No: VCP437844
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: IMPORT AUTO



ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC
 8418 PALM RIVER ROAD
 TAMPA, FL
 US 33619
 Contact: KENNY HANEY
 khaney@flaglerce.com
 T: (813)630-0077
 F: (813)630-2233



SAMPLE INFORMATION

Sample Number	VCP437844	VCP376211	VCP334693	---
Sample Date	26 Feb 2024	21 Jul 2022	20 Jul 2021	---
Machine Hours	3107	2134	1255	---
Oil Hours	0	500	1255	---
Oil Changed	Not Chngd	Changed	Changed	---
Sample Status	ABNORMAL	NORMAL	NORMAL	---



OIL CONDITION

Visc @ 100°C	cSt	12.5	13.1	13.9	---
Base Number (BN)	mg KOH/g	9.8	11.8	---	---
Oxidation (PA)	%	76	86	69	---



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.2	0.1	0.1	---
Nitration (PA)	%	64	63	57	---
Sulfation (PA)	%	57	64	59	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	7	6	2	---
Sodium	ppm	2	2	1	---
Potassium	ppm	0	0	6	---



WEAR METALS

Iron	ppm	27	10	13	---
Copper	ppm	3	1	<1	---
Lead	ppm	0	0	<1	---
Tin	ppm	<1	1	<1	---
Aluminum	ppm	▲ 14	5	3	---
Chromium	ppm	1	<1	<1	---
Molybdenum	ppm	50	38	7	---
Nickel	ppm	0	<1	0	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	<1	---
Manganese	ppm	1	<1	<1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	1682	1647	2057	---
Magnesium	ppm	582	467	44	---
Zinc	ppm	1163	1045	1137	---
Phosphorus	ppm	1027	846	914	---
Barium	ppm	0	0	0	---
Boron	ppm	31	35	202	---

Diagnosis

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: VOLVO0093
Unique No: 11018418
Signed: Sean Felton
Report Date: 10 May 2024



CONSTRUCTION EQUIPMENT



GRAPHS

