



CONSTRUCTION EQUIPMENT

595666 RUBYS RECYC VOLVO EC220 314072 - DIESEL ENGINE



Sample No: VCP416918
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 595666 RUBYS RECYC



ALTA EQUIPMENT COMPANY - METRO WEST
 56195 PONTIAC TRAIL
 NEW HUDSON, MI
 US 48165
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SAMPLE INFORMATION

Sample Number	VCP416918	VCP382755	---	---
Sample Date	06 Sep 2023	16 Mar 2023	---	---
Machine Hours	2574	1521	---	---
Oil Hours	500	500	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ABNORMAL	NORMAL	---	---

OIL CONDITION

Visc @ 100°C	cSt	15.2	13.1	---	---
Base Number (BN)	mg KOH/g	5.7	8.1	---	---
Oxidation (PA)	%	105	87	---	---

CONTAMINATION

Soot %	%	0.3	0.2	---	---
Nitration (PA)	%	96	83	---	---
Sulfation (PA)	%	69	61	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	6	9	---	---
Sodium	ppm	2	2	---	---
Potassium	ppm	<1	1	---	---

WEAR METALS

Iron	ppm	25	28	---	---
Copper	ppm	2	2	---	---
Lead	ppm	0	0	---	---
Tin	ppm	<1	<1	---	---
Aluminum	ppm	▲ 16	4	---	---
Chromium	ppm	2	1	---	---
Molybdenum	ppm	74	46	---	---
Nickel	ppm	0	<1	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	1769	1663	---	---
Magnesium	ppm	910	371	---	---
Zinc	ppm	1599	1038	---	---
Phosphorus	ppm	1217	855	---	---
Barium	ppm	0	0	---	---
Boron	ppm	27	25	---	---

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: VOLVO2990
Unique No: 10644717
Signed: Don Baldrige
Report Date: 14 Sep 2023



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GRAPHS

