



CONSTRUCTION EQUIPMENT

634759 RUBYS VOLVO EC220 314072 - DIESEL ENGINE



Sample No: VCP435392
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 634759 RUBYS



ALTA EQUIPMENT COMPANY - METRO WEST
 56195 PONTIAC TRAIL
 NEW HUDSON, MI
 US 48165
 Contact: PAUL CONZ
 paul.conz@altg.com
 T: (313)348-8861
 F: (248)356-2029



SAMPLE INFORMATION

Sample Number	VCP435392	VCP416918	VCP382755	---
Sample Date	06 Dec 2023	06 Sep 2023	16 Mar 2023	---
Machine Hours	3106	2574	1521	---
Oil Hours	500	500	500	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	ABNORMAL	NORMAL	---



OIL CONDITION

Visc @ 100°C	cSt	15.5	15.2	13.1	---
Base Number (BN)	mg KOH/g	6.4	5.7	8.1	---
Oxidation (PA)	%	105	105	87	---



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.3	0.3	0.2	---
Nitration (PA)	%	94	96	83	---
Sulfation (PA)	%	70	69	61	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	5	6	9	---
Sodium	ppm	2	2	2	---
Potassium	ppm	5	<1	1	---



WEAR METALS

Iron	ppm	19	25	28	---
Copper	ppm	1	2	2	---
Lead	ppm	<1	0	0	---
Tin	ppm	1	<1	<1	---
Aluminum	ppm	11	▲ 16	4	---
Chromium	ppm	1	2	1	---
Molybdenum	ppm	40	74	46	---
Nickel	ppm	<1	0	<1	---
Titanium	ppm	<1	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	1892	1769	1663	---
Magnesium	ppm	627	910	371	---
Zinc	ppm	1471	1599	1038	---
Phosphorus	ppm	1177	1217	855	---
Barium	ppm	0	0	0	---
Boron	ppm	61	27	25	---

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: VOLVO2990
Unique No: 10794193
Signed: Don Baldrige
Report Date: 20 Dec 2023



CONSTRUCTION EQUIPMENT



GRAPHS

