



CONSTRUCTION EQUIPMENT

ATLAS VOLVO EC220E 3 10953 - DIESEL ENGINE



Sample No: VCP445543
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: ATLAS



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SAMPLE INFORMATION

Sample Number	VCP445543	VCP437844	VCP376211	VCP334693
Sample Date	04 Apr 2024	26 Feb 2024	21 Jul 2022	20 Jul 2021
Machine Hours	2518	3107	2134	1255
Oil Hours	0	0	500	1255
Oil Changed	Changed	Not Chngd	Changed	Changed
Sample Status	NORMAL	ABNORMAL	NORMAL	NORMAL

OIL CONDITION

Visc @ 100°C	cSt	13.1	12.5	13.1	13.9
Base Number (BN)	mg KOH/g	9.6	9.8	11.8	---
Oxidation (PA)	%	74	76	86	69

CONTAMINATION

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

WEAR METALS

Iron	ppm	6	27	10	13
Copper	ppm	<1	3	1	<1
Lead	ppm	0	0	0	<1
Tin	ppm	<1	<1	1	<1
Aluminum	ppm	2	▲ 14	5	3
Chromium	ppm	0	1	<1	<1
Molybdenum	ppm	44	50	38	7
Nickel	ppm	0	0	<1	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1722	1682	1647	2057
Magnesium	ppm	464	582	467	44
Zinc	ppm	1158	1163	1045	1137
Phosphorus	ppm	990	1027	846	914
Barium	ppm	0	0	0	0
Boron	ppm	34	31	35	202

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: VOLVO0093
Unique No: 11043996
Signed: Wes Davis
Report Date: 23 May 2024



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GRAPHS

