



CONSTRUCTION EQUIPMENT

ATLAS VOLVO EC220EL 314469 - DIESEL ENGINE



Sample No: VCP444090
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: ATLAS



SAMPLE INFORMATION

Sample Number	VCP444090	VCP425015	VCP354461	---
Sample Date	20 Feb 2024	15 Aug 2023	07 Jul 2022	---
Machine Hours	1492	931	334	---
Oil Hours	0	500	334	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	12.9	13.3	13.5	---
Base Number (BN)	mg KOH/g	10.1	8.7	7.7	---
Oxidation (PA)	%	77	53	43	---

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.



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.1	0.1	0.1	---
Nitration (PA)	%	59	43	66	---
Sulfation (PA)	%	57	48	50	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	5	3	15	---
Sodium	ppm	2	2	2	---
Potassium	ppm	0	<1	4	---



WEAR METALS

Iron	ppm	8	5	20	---
Copper	ppm	<1	<1	8	---
Lead	ppm	0	0	<1	---
Tin	ppm	0	<1	2	---
Aluminum	ppm	2	0	4	---
Chromium	ppm	0	<1	2	---
Molybdenum	ppm	45	62	3	---
Nickel	ppm	0	0	4	---
Titanium	ppm	0	<1	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	0	<1	4	---
Vanadium	ppm	0	<1	0	---



ADDITIVES

Calcium	ppm	1963	1897	2307	---
Magnesium	ppm	549	423	64	---
Zinc	ppm	1252	1281	1071	---
Phosphorus	ppm	1022	1064	912	---
Barium	ppm	0	0	0	---
Boron	ppm	36	4	3	---

Depot: VOLVO0093
Unique No: 10995439
Signed: Wes Davis
Report Date: 25 Apr 2024



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GRAPHS

