



CONSTRUCTION EQUIPMENT

443969 ATLAS ORG VOLVO EC220E 314134 - DIESEL ENGINE



Sample No: VCP435629
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 443969 ATLAS ORG



SAMPLE INFORMATION

Sample Number	VCP435629	VCP418339	VCP412979	---
Sample Date	21 Dec 2023	12 Sep 2023	21 Jun 2023	---
Machine Hours	7771	7093	6525	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	15.3	15.1	14.9	---
Base Number (BN)	mg KOH/g	6.9	7.6	6.4	---
Oxidation (PA)	%	115	106	91	---

Diagnosis

Oil and filter change at the time of sampling has been noted. 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 %	%	0.3	0.3	0.3	---
Nitration (PA)	%	108	102	87	---
Sulfation (PA)	%	74	70	72	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	8	10	8	---
Sodium	ppm	2	3	0	---
Potassium	ppm	0	1	2	---



WEAR METALS

Iron	ppm	14	15	14	---
Copper	ppm	1	1	1	---
Lead	ppm	1	<1	<1	---
Tin	ppm	2	<1	<1	---
Aluminum	ppm	3	2	2	---
Chromium	ppm	<1	1	<1	---
Molybdenum	ppm	76	68	102	---
Nickel	ppm	0	<1	<1	---
Titanium	ppm	<1	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	2030	1826	1541	---
Magnesium	ppm	659	528	417	---
Zinc	ppm	1532	1355	1344	---
Phosphorus	ppm	1228	1067	1113	---
Barium	ppm	0	0	0	---
Boron	ppm	72	50	175	---

Depot: VOLVO0093
Unique No: 10808097
Signed: Sean Felton
Report Date: 02 Jan 2024



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GRAPHS

