



CONSTRUCTION EQUIPMENT

SWO069350 VOLVO EC300ELR 311843 - DIESEL ENGINE



Sample No: VCP431839
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWO069350



SAMPLE INFORMATION

Sample Number	VCP431839	VCP421725	VCP421873	VCP369227
Sample Date	09 Feb 2024	22 Sep 2023	21 Apr 2023	21 Nov 2022
Machine Hours	5843	5320	4800	4347
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

SAIIA CONSTRUCTION LLC

4400 LEWISBURG RD
 BIRMINGHAM, AL
 US 35207

Contact: STEPHANI BRITTON
 sbritton@saiia.com;doug.bogart@wearcheck.com
 T: (205)943-2268
 F: (205)943-2269



OIL CONDITION

Visc @ 100°C	cSt	12.8	12.9	12.9	13.2
Base Number (BN)	mg KOH/g	8.8	9.3	10.5	11.9
Oxidation (PA)	%	73	79	81	88

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	NEG
Soot %	%	0.1	0.1	0.1	0.2
Nitration (PA)	%	65	57	57	65
Sulfation (PA)	%	56	58	61	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	7	5	8
Sodium	ppm	0	5	2	2
Potassium	ppm	3	6	1	6



WEAR METALS

Iron	ppm	10	10	9	11
Copper	ppm	8	3	1	4
Lead	ppm	<1	<1	0	<1
Tin	ppm	<1	<1	0	<1
Aluminum	ppm	3	5	4	6
Chromium	ppm	<1	<1	0	<1
Molybdenum	ppm	76	45	45	43
Nickel	ppm	0	0	0	<1
Titanium	ppm	<1	<1	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	1	<1	<1
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	1481	1778	1693	1690
Magnesium	ppm	561	550	553	514
Zinc	ppm	911	1020	1038	916
Phosphorus	ppm	849	847	833	756
Barium	ppm	12	0	0	0
Boron	ppm	72	41	52	41

Depot: SAIBIR
Unique No: 10876045
Signed: Sean Felton
Report Date: 15 Feb 2024



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VOLVO GRAPHS

