



CONSTRUCTION EQUIPMENT

SWO-063484 VOLVO EC250E 310275 - DIESEL ENGINE



Sample No: VCP408947
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWO-063484



SAMPLE INFORMATION

Sample Number	VCP408947	VCP395241	VCP379735	VPA348542
Sample Date	23 Jun 2023	17 Feb 2023	18 Oct 2022	11 Jul 2022
Machine Hours	7550	7053	6547	6206
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

SAIIA CONSTRUCTION LLC

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OIL CONDITION

Visc @ 100°C	cSt	13.4	13.5	13.2	13.0
Base Number (BN)	mg KOH/g	10.8	10.7	9.7	10.1
Oxidation (PA)	%	86	85	71	63



CONTAMINATION

Soot %	%	0.4	0.3	0.3	0.2
Nitration (PA)	%	74	72	83	61
Sulfation (PA)	%	63	62	59	58
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	13	10	9	7
Sodium	ppm	4	2	5	6
Potassium	ppm	52	4	4	3



WEAR METALS

Iron	ppm	12	10	10	13
Copper	ppm	1	1	1	<1
Lead	ppm	<1	0	<1	<1
Tin	ppm	1	<1	<1	<1
Aluminum	ppm	23	6	9	4
Chromium	ppm	<1	<1	<1	1
Molybdenum	ppm	40	45	29	28
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	1717	1723	1547	1459
Magnesium	ppm	550	515	653	605
Zinc	ppm	1125	1101	935	921
Phosphorus	ppm	914	921	777	753
Barium	ppm	<1	2	0	0
Boron	ppm	32	32	40	79

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. Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. 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: SAIBIR
Unique No: 10535834
Signed: Doug Bogart
Report Date: 02 Jul 2023



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GRAPHS

