



CONSTRUCTION EQUIPMENT

SWO-068407 VOLVO EC380EL 310021 - DIESEL ENGINE



Sample No: VCP428701
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWO-068407



SAMPLE INFORMATION

Sample Number	VCP428701	VCP428931	VCP407520	VCP367121
Sample Date	21 Dec 2023	07 Sep 2023	18 May 2023	03 Nov 2022
Machine Hours	10648	10247	9662	9133
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

WHITAKER CONTRACTING

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OIL CONDITION

Visc @ 100°C	cSt	12.5	12.4	12.8	12.8
Base Number (BN)	mg KOH/g	9.2	9.6	9.8	9.9
Oxidation (PA)	%	79	79	84	89

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	0.1
Nitration (PA)	%	63	56	67	83
Sulfation (PA)	%	58	59	61	64
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	6	8	7
Sodium	ppm	2	2	0	2
Potassium	ppm	0	0	1	0



WEAR METALS

Iron	ppm	3	4	7	6
Copper	ppm	1	<1	<1	<1
Lead	ppm	<1	0	<1	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	2	<1	<1	2
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	43	42	45	40
Nickel	ppm	<1	0	2	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1465	1870	1617	1569
Magnesium	ppm	620	529	501	528
Zinc	ppm	1154	1173	1074	1102
Phosphorus	ppm	970	959	898	875
Barium	ppm	0	0	2	0
Boron	ppm	24	34	46	20

Depot: WHIGUN
Unique No: 10809260
Signed: Wes Davis
Report Date: 03 Jan 2024



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VOLVO GRAPHS

