



CONSTRUCTION EQUIPMENT

SWO-067478 VOLVO EC380EL 310443 - DIESEL ENGINE



Sample No: VCP445779
Oil Type: DIESEL ENGINE OIL SAE 40
Job No: SWO-067478



SAMPLE INFORMATION

Sample Number	VCP445779	VCP395111	VCP368328	VCP366789
Sample Date	08 Nov 2023	14 Feb 2023	08 Nov 2022	19 Jul 2022
Machine Hours	10940	10082	9587	9113
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	12.8	12.7	12.9	12.4
Base Number (BN)	mg KOH/g	7.9	3.1	10.8	6.8
Oxidation (PA)	%	88	91	91	88

Diagnosis

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm.

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

Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	85	108	75	90
Sulfation (PA)	%	61	75	66	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	0.3
Silicon	ppm	6	5	4	4
Sodium	ppm	3	3	<1	1
Potassium	ppm	<1	0	2	2



WEAR METALS

Iron	ppm	5	5	5	7
Copper	ppm	1	<1	<1	1
Lead	ppm	<1	<1	<1	2
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	1	0	<1	2
Chromium	ppm	<1	<1	0	<1
Molybdenum	ppm	42	50	44	68
Nickel	ppm	<1	<1	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1523	1588	1707	1586
Magnesium	ppm	571	606	480	541
Zinc	ppm	1139	1162	1101	1084
Phosphorus	ppm	933	937	906	859
Barium	ppm	0	0	0	0
Boron	ppm	16	32	24	26

Depot: WHIGUN
Unique No: 10743043
Signed: Wes Davis
Report Date: 16 Nov 2023



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GRAPHS

