



CONSTRUCTION EQUIPMENT

3017 VOLVO EC380EL 310195 - DIESEL ENGINE



Sample No: VCP382955

Oil Type: {unknown}

Job No: 3017



SAMPLE INFORMATION

Sample Number	VCP382955	VCP383275	VCP358379	VCP293813
Sample Date	04 Jan 2024	18 Jul 2023	09 Jan 2023	09 Feb 2021
Machine Hours	5715	5200	4735	3030
Oil Hours	0	0	500	500
Oil Changed	N/A	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 100°C	cSt	12.3	12.6	12.6	12.6
Base Number (BN)	mg KOH/g	9.9	9.9	10.0	---
Oxidation (PA)	%	83	81	80	80



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	63	62	59	76
Sulfation (PA)	%	61	60	61	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	0.9	<1.0	<1.0	<1.0
Silicon	ppm	4	5	7	1
Sodium	ppm	0	2	<1	2
Potassium	ppm	0	0	<1	1



WEAR METALS

Iron	ppm	0	5	4	7
Copper	ppm	0	<1	<1	5
Lead	ppm	<1	0	<1	1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	1	2	<1	<1
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	38	41	41	35
Nickel	ppm	<1	<1	0	<1
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1589	1829	1657	1637
Magnesium	ppm	500	554	466	527
Zinc	ppm	1082	1220	1044	1014
Phosphorus	ppm	911	1014	880	909
Barium	ppm	0	<1	1	0
Boron	ppm	41	51	44	50



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Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. Fuel content negligible. 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: LEOMAD

Unique No: 10846873

Signed: Wes Davis

Report Date: 29 Jan 2024



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GRAPHS

