



CONSTRUCTION EQUIPMENT

SPM619899 VOLVO EC380EL 310775 - DIESEL ENGINE



Sample No: VCP413080
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM619899



SAMPLE INFORMATION

Sample Number	VCP413080	VCP382782	VCP421922	VCP383232
Sample Date	12 Oct 2023	10 Jul 2023	26 Apr 2023	22 Feb 2023
Machine Hours	22964	21778	21313	20570
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

UNITED SCRAP

1545 S CICERO AVE
 CICERO, IL
 US 60804

Contact: RON LUCHTENBURG
 rluchten@unitedscrap.com

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OIL CONDITION

Visc @ 100°C	cSt	12.7	12.5	12.4	12.5
Base Number (BN)	mg KOH/g	6.5	6.4	5.6	5.3
Oxidation (PA)	%	89	88	77	86

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	%	---	---	---	▲ 0.155
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	83	83	78	97
Sulfation (PA)	%	65	64	56	69
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	7	6	7
Sodium	ppm	4	3	2	0
Potassium	ppm	3	0	<1	4



WEAR METALS

Iron	ppm	8	7	7	11
Copper	ppm	1	<1	<1	3
Lead	ppm	1	0	0	2
Tin	ppm	<1	<1	<1	1
Aluminum	ppm	3	<1	<1	2
Chromium	ppm	<1	0	0	0
Molybdenum	ppm	59	60	60	63
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	<1	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	<1	<1	0	0



ADDITIVES

Calcium	ppm	1201	1208	1192	1164
Magnesium	ppm	765	972	992	878
Zinc	ppm	1111	1245	1348	1195
Phosphorus	ppm	887	1027	1040	946
Barium	ppm	0	0	0	0
Boron	ppm	19	6	3	<1

Depot: UNICICIL
Unique No: 10712785
Signed: Wes Davis
Report Date: 27 Oct 2023



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VOLVO GRAPHS

