



CONSTRUCTION EQUIPMENT

SPM686810 VOLVO EC380E 315082 - DIESEL ENGINE



Sample No: VCP436315
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM686810



SAMPLE INFORMATION

Sample Number	VCP436315	VCP414543	VCP420645	VCP418538
Sample Date	15 Mar 2024	11 Oct 2023	13 Jul 2023	02 May 2023
Machine Hours	4946	3862	3213	2700
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	ATTENTION	ATTENTION	ATTENTION

UNITED SCRAP

1545 S CICERO AVE
 CICERO, IL
 US 60804
 Contact: RON LUCHTENBURG
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 T:
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OIL CONDITION

Visc @ 100°C	cSt	13.1	11.7	12.1	12.3
Base Number (BN)	mg KOH/g	9.1	6.6	8.2	8.9
Oxidation (PA)	%	65	76	65	61



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	58	73	63	55
Sulfation (PA)	%	54	58	55	53
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	9	7	5	4
Sodium	ppm	0	3	3	2
Potassium	ppm	3	3	0	<1



WEAR METALS

Iron	ppm	5	8	8	5
Copper	ppm	1	3	3	2
Lead	ppm	3	<1	0	0
Tin	ppm	2	<1	0	<1
Aluminum	ppm	6	2	<1	<1
Chromium	ppm	<1	<1	<1	0
Molybdenum	ppm	59	59	62	60
Nickel	ppm	<1	<1	0	0
Titanium	ppm	<1	<1	<1	0
Silver	ppm	<1	0	0	0
Manganese	ppm	<1	0	<1	0
Vanadium	ppm	<1	<1	<1	0



ADDITIVES

Calcium	ppm	1090	1068	1152	1131
Magnesium	ppm	961	866	1007	1008
Zinc	ppm	1227	1173	1267	1300
Phosphorus	ppm	971	936	1061	1052
Barium	ppm	1	0	0	0
Boron	ppm	0	2	3	0

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.

Depot: UNICICIL
Unique No: 10940997
Signed: Wes Davis
Report Date: 26 Mar 2024



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GRAPHS

