



CONSTRUCTION EQUIPMENT

SPM717168 VOLVO EC480E 314792 - DIESEL ENGINE



Sample No: VCP436303
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM717168



SAMPLE INFORMATION

Sample Number	VCP436303	VCP429124	VCP409262	VCP05838951
Sample Date	07 Jun 2024	02 Nov 2023	07 Jul 2023	21 Apr 2023
Machine Hours	3996	3011	2503	1993
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	ATTENTION	ATTENTION	ATTENTION

SIMS METAL MANAGEMENT

2500 S. PAULINA
 CHICAGO, IL
 US 60608
 Contact: RYAN WISE
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 T:
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OIL CONDITION

Visc @ 100°C	cSt	12.1	11.7	12.1	12.0
Base Number (BN)	mg KOH/g	7.2	6.8	7.7	4.8
Oxidation (PA)	%	64	63	66	71



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.5	0.1	0.1	0.1
Nitration (PA)	%	77	73	74	78
Sulfation (PA)	%	56	54	57	56
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	9	8	7
Sodium	ppm	1	0	<1	1
Potassium	ppm	<1	2	<1	<1



WEAR METALS

Iron	ppm	9	7	9	10
Copper	ppm	11	11	11	17
Lead	ppm	0	<1	2	0
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	<1	2	<1	<1
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	56	56	60	60
Nickel	ppm	0	0	0	0
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1078	1032	1115	1155
Magnesium	ppm	936	853	1031	1008
Zinc	ppm	1190	1096	1330	1343
Phosphorus	ppm	1006	901	1041	918
Barium	ppm	0	0	0	0
Boron	ppm	0	2	2	0

Diagnosis

Oil and filter change at the time of sampling has been noted. 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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Depot: SIMCHIL
Unique No: 11087215
Signed: Don Baldrige
Report Date: 21 Jun 2024



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VOLVO GRAPHS

