



CONSTRUCTION EQUIPMENT

VOLVO EC480E 314146 - DIESEL ENGINE



Sample No: VCP419108
Oil Type: DIESEL ENGINE OIL SAE 30
Job No:



SAMPLE INFORMATION

Sample Number	VCP419108	VCP424699	VCP371258	VCP384717
Sample Date	28 Aug 2023	03 May 2023	17 Jan 2023	07 Oct 2022
Machine Hours	6421	5940	5434	4977
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ATTENTION

SAIIA CONSTRUCTION LLC

4400 LEWISBURG RD
 BIRMINGHAM, AL
 US 35207

Contact: STEPHANI BRITTON
 sbritton@saiia.com;doug.bogart@wearcheck.com
 T: (205)943-2268
 F: (205)943-2269



OIL CONDITION

Visc @ 100°C	cSt	11.6	12.0	11.9	▲ 12.4
Base Number (BN)	mg KOH/g	8.8	7.1	8.6	9.9
Oxidation (PA)	%	70	69	71	86



CONTAMINATION

Soot %	%	0.2	0.1	0.1	0.3
Nitration (PA)	%	69	70	73	79
Sulfation (PA)	%	55	51	55	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	1.0	<1.0
Silicon	ppm	5	7	6	10
Sodium	ppm	3	2	1	<1
Potassium	ppm	2	0	0	2



WEAR METALS

Iron	ppm	6	7	9	20
Copper	ppm	<1	<1	1	2
Lead	ppm	1	0	2	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	2	1	<1	4
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	43	54	52	45
Nickel	ppm	<1	1	1	0
Titanium	ppm	<1	<1	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	1	<1	<1	<1
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	1730	1507	1585	1642
Magnesium	ppm	514	769	811	515
Zinc	ppm	990	1062	1174	958
Phosphorus	ppm	788	917	934	779
Barium	ppm	0	0	0	0
Boron	ppm	35	12	10	17

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 acceptable for the time in service.

Depot: SAIBIR
Unique No: 10642997
Signed: Don Baldrige
Report Date: 13 Sep 2023



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS

