



CONSTRUCTION EQUIPMENT

SPM594733 VOLVO EC380E 314966 - SWING DRIVE



Sample No: VCP415262
Oil Type: GEAR OIL SAE 80W90
Job No: SPM594733



SAMPLE INFORMATION

Sample Number	VCP415262	VCP420639	VCP387454	VCP401614
Sample Date	25 Aug 2023	19 Jul 2023	11 Apr 2023	20 Jan 2023
Machine Hours	5784	4982	3953	1858
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Changed	Changed	Not Chngd
Sample Status	ATTENTION	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	▲ 101	■ 191	■ 196	■ 196
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CONTAMINATION

Silicon	ppm	■ 2	■ 20	■ 21	■ 11
Sodium	ppm	■ 2	■ <1	■ 1	■ 1
Potassium	ppm	■ <1	■ <1	■ 0	■ 0

WEAR METALS

Iron	ppm	■ <1	■ 15	■ 60	■ 41
Copper	ppm	■ <1	■ 2	■ 4	■ 5
Lead	ppm	■ 0	■ <1	■ 0	■ <1
Tin	ppm	■ 0	■ <1	■ 0	■ <1
Aluminum	ppm	■ <1	■ 0	■ 2	■ 1
Chromium	ppm	■ 0	■ <1	■ 1	■ 1
Molybdenum	ppm	■ 0	■ 3	■ 1	■ <1
Nickel	ppm	■ 0	■ 0	■ 0	■ 0
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	■ <1	■ <1	■ 1	■ <1
Vanadium	ppm	0	<1	0	0

ADDITIVES

Calcium	ppm	■ 66	■ 2612	■ 3195	■ 2421
Magnesium	ppm	■ 2	■ 65	■ 42	■ 16
Zinc	ppm	■ 18	■ 957	■ 1097	■ 1079
Phosphorus	ppm	■ 945	■ 770	■ 893	■ 875
Barium	ppm	■ 0	■ 0	■ 0	■ 1
Boron	ppm	■ 160	■ 3	■ 3	■ <1

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 oil viscosity is lower than normal. The condition of the oil is acceptable for the time in service.

Depot: UNICICIL
Unique No: 10634541
Signed: Don Baldrige
Report Date: 08 Sep 2023

VOLVO **GRAPHS**

