



CONSTRUCTION EQUIPMENT

SPM580155 VOLVO EC380E 314966 - RIGHT FINAL DRIVE



Sample No: VCP420036

Oil Type: SHELL 220

Job No: SPM580155



SAMPLE INFORMATION

Sample Number	VCP420036	VCP387455	VCP401770	VCP373755
Sample Date	19 Jul 2023	11 Apr 2023	20 Jan 2023	14 Nov 2022
Machine Hours	4982	3953	1858	2125
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Not Changd	Changed
Sample Status	ABNORMAL	ABNORMAL	NORMAL	NORMAL



UNITED SCRAP

1545 S CICERO AVE
CICERO, IL
US 60804

Contact: RON LUCHTENBURG
rluchten@unitedscrap.com

T:
F:



OIL CONDITION

Visc @ 40°C	cSt	192	184	195	158
-------------	-----	------------	-----	-----	-----



CONTAMINATION

Silicon	ppm	▲ 92	▲ 84	■ 22	■ 12
Sodium	ppm	■ 3	■ 5	■ 2	■ <1
Potassium	ppm	■ 4	■ 4	■ <1	■ 3



WEAR METALS

Iron	ppm	■ 395	■ 368	■ 63	■ 280
Copper	ppm	■ 1	■ 4	■ 10	■ <1
Lead	ppm	■ 2	■ 0	■ 1	■ <1
Tin	ppm	■ <1	■ 0	■ <1	■ 0
Aluminum	ppm	▲ 11	▲ 13	■ 4	■ 3
Chromium	ppm	■ 8	▲ 14	■ 3	■ 6
Molybdenum	ppm	4	■ 3	■ 1	■ <1
Nickel	ppm	■ <1	■ <1	■ 0	0
Titanium	ppm	2	1	<1	<1
Silver	ppm	0	0	0	1
Manganese	ppm	4	■ 5	■ 1	■ 4
Vanadium	ppm	<1	<1	0	<1



ADDITIVES

Calcium	ppm	2673	■ 2436	■ 2373	■ 14
Magnesium	ppm	107	■ 74	■ 24	■ 5
Zinc	ppm	933	■ 822	■ 1037	■ 10
Phosphorus	ppm	759	■ 746	■ 848	■ 338
Barium	ppm	0	■ 4	■ <1	■ 8
Boron	ppm	4	■ 5	■ <1	■ 1

Diagnosis

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The condition of the oil is acceptable for the time in service.

Depot: UNICICIL
Unique No: 10586813
Signed: Don Baldrige
Report Date: 04 Aug 2023



CONSTRUCTION EQUIPMENT



GRAPHS

