



CONSTRUCTION EQUIPMENT

SPM580906 VOLVO EC380EL 311492 - SWING DRIVE



Sample No: VCP414190
Oil Type: GEAR OIL SAE 80W90
Job No: SPM580906



SAMPLE INFORMATION

Sample Number	VCP414190	VCP399809	VCP387439	VCP365208
Sample Date	21 Jul 2023	22 Feb 2023	05 Dec 2022	30 Aug 2022
Machine Hours	7780	6944	6455	5980
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Changed	Changed	Changed
Sample Status	SEVERE	ABNORMAL	NORMAL	NORMAL

BELSON STEEL
1685 N STATE RTE 50
BOURBONNAIS, IL
US 60914
Contact: M. POZAN
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F:

OIL CONDITION

Visc @ 40°C	cSt	153	180	165	163
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CONTAMINATION

Water	%	2.21	0.743	---	---
Silicon	ppm	10	49	20	19
Sodium	ppm	<1	4	0	0
Potassium	ppm	2	3	1	1

Diagnosis

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a high concentration of water present in the oil. The oil is no longer serviceable due to the presence of contaminants.

WEAR METALS

Iron	ppm	431	2206	447	320
Copper	ppm	13	70	10	5
Lead	ppm	<1	<1	0	0
Tin	ppm	<1	<1	0	0
Aluminum	ppm	4	11	2	<1
Chromium	ppm	4	31	4	3
Molybdenum	ppm	<1	2	<1	<1
Nickel	ppm	0	1	0	0
Titanium	ppm	<1	1	<1	<1
Silver	ppm	0	0	<1	0
Manganese	ppm	4	23	4	3
Vanadium	ppm	<1	<1	0	0

ADDITIVES

Calcium	ppm	85	44	26	17
Magnesium	ppm	4	8	1	<1
Zinc	ppm	69	100	24	18
Phosphorus	ppm	1514	625	198	173
Barium	ppm	0	8	<1	0
Boron	ppm	82	3	<1	<1

Depot: BELBOU
Unique No: 10586764
Signed: Don Baldrige
Report Date: 04 Aug 2023



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GRAPHS

