



CONSTRUCTION EQUIPMENT

SPM608314 VOLVO EC380EL 311492 - SWING DRIVE



Sample No: VCP426429
Oil Type: GEAR OIL SAE 80W90
Job No: SPM608314



SAMPLE INFORMATION

Sample Number	VCP426429	VCP414190	VCP399809	VCP387439
Sample Date	15 Sep 2023	21 Jul 2023	22 Feb 2023	05 Dec 2022
Machine Hours	7993	7780	6944	6455
Oil Hours	0	0	0	0
Oil Changed	Changed	Not Chngd	Changed	Changed
Sample Status	ABNORMAL	SEVERE	ABNORMAL	NORMAL

BELSON STEEL

1685 N STATE RTE 50
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US 60914
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F:



OIL CONDITION

Visc @ 40°C	cSt	155	153	180	165
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CONTAMINATION

Water	%	▲ 1.99	2.21	▲ 0.743	NEG
Silicon	ppm	11	10	49	20
Sodium	ppm	2	<1	4	0
Potassium	ppm	2	2	3	1



WEAR METALS

Iron	ppm	452	431	▲ 2206	447
Copper	ppm	16	13	▲ 70	10
Lead	ppm	<1	<1	<1	0
Tin	ppm	<1	<1	<1	0
Aluminum	ppm	2	4	11	2
Chromium	ppm	6	4	▲ 31	4
Molybdenum	ppm	1	<1	2	<1
Nickel	ppm	1	0	1	0
Titanium	ppm	<1	<1	1	<1
Silver	ppm	<1	0	0	<1
Manganese	ppm	6	4	23	4
Vanadium	ppm	<1	<1	<1	0



ADDITIVES

Calcium	ppm	59	85	44	26
Magnesium	ppm	4	4	8	1
Zinc	ppm	58	69	100	24
Phosphorus	ppm	1096	1514	625	198
Barium	ppm	0	0	8	<1
Boron	ppm	38	82	3	<1

Diagnosis

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. Appearance is milky. Moderate concentration of visible dirt/debris present in the oil. There is a high concentration of water present in the oil. The condition of the oil is acceptable for the time in service.

Depot: BELBOU
Unique No: 10883380
Signed: Don Baldrige
Report Date: 19 Feb 2024



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GRAPHS

