



CONSTRUCTION EQUIPMENT

SWO-068407 VOLVO EC380EL 310021 - REAR RIGHT FINAL DRIVE



Sample No: VCP428707
Oil Type: GEAR OIL SAE 80W140
Job No: SWO-068407



SAMPLE INFORMATION

Sample Number	VCP428707	VCP428913	VCP407504	VCP356248
Sample Date	21 Dec 2023	07 Sep 2023	18 May 2023	03 Nov 2022
Machine Hours	10648	10247	9662	9133
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Changed	Not Changd	Not Changd
Sample Status	SEVERE	SEVERE	SEVERE	SEVERE

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OIL CONDITION

Visc @ 40°C	cSt	303	466	388	253
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	534	2021	1600	495
Sodium	ppm	0	38	25	3
Potassium	ppm	38	147	124	43

WEAR METALS

Iron	ppm	1892	5040	3439	1694
Copper	ppm	0	10	7	3
Lead	ppm	0	1	<1	<1
Tin	ppm	0	<1	0	<1
Aluminum	ppm	119	463	415	125
Chromium	ppm	6	39	28	11
Molybdenum	ppm	5	9	7	6
Nickel	ppm	0	7	6	2
Titanium	ppm	4	32	26	7
Silver	ppm	0	0	0	0
Manganese	ppm	6	32	24	12
Vanadium	ppm	0	1	<1	<1

ADDITIVES

Calcium	ppm	178	573	492	393
Magnesium	ppm	50	145	118	86
Zinc	ppm	71	72	59	43
Phosphorus	ppm	890	872	845	821
Barium	ppm	5	0	4	0
Boron	ppm	91	133	122	115

Diagnosis

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil is no longer serviceable due to the presence of contaminants.

Depot: WHIGUN
Unique No: 10809855
Signed: Jonathan Hester
Report Date: 04 Jan 2024



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS

