



CONSTRUCTION EQUIPMENT

SWO-065699 VOLVO EC380EL 310021 - REAR RIGHT FINAL DRIVE



Sample No: VCP428913
Oil Type: NOT GIVEN
Job No: SWO-065699



SAMPLE INFORMATION

Sample Number	VCP428913	VCP407504	VCP356248	VCP357706
Sample Date	07 Sep 2023	18 May 2023	03 Nov 2022	29 Mar 2022
Machine Hours	10247	9662	9133	8385
Oil Hours	0	0	0	0
Oil Changed	Changed	Not Changd	Not Changd	Not Changd
Sample Status	SEVERE	SEVERE	SEVERE	SEVERE

WHITAKER CONTRACTING

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OIL CONDITION

Visc @ 40°C	cSt	466	388	253	285
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CONTAMINATION

Silicon	ppm	2021	1600	495	297
Sodium	ppm	38	25	3	2
Potassium	ppm	147	124	43	18



WEAR METALS

Iron	ppm	5040	3439	1694	948
Copper	ppm	10	7	3	2
Lead	ppm	1	<1	<1	0
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	463	415	125	67
Chromium	ppm	39	28	11	7
Molybdenum	ppm	9	7	6	4
Nickel	ppm	7	6	2	<1
Titanium	ppm	32	26	7	5
Silver	ppm	0	0	0	<1
Manganese	ppm	32	24	12	8
Vanadium	ppm	1	<1	<1	<1



ADDITIVES

Calcium	ppm	573	492	393	194
Magnesium	ppm	145	118	86	43
Zinc	ppm	72	59	43	57
Phosphorus	ppm	872	845	821	939
Barium	ppm	0	4	0	0
Boron	ppm	133	122	115	132

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. The oil change at the time of sampling has been noted. 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 as a result of the abnormal and/or severe wear.

Depot: WHIGUN
Unique No: 10646450
Signed: Angela Borella
Report Date: 18 Sep 2023



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VOLVO GRAPHS

