



CONSTRUCTION EQUIPMENT

SWO-068407 VOLVO EC380EL 310021 - REAR LEFT FINAL DRIVE



Sample No: VCP428706
Oil Type: GEAR OIL SAE 90W140
Job No: SWO-068407



SAMPLE INFORMATION

Sample Number	VCP428706	VCP428919	VCP407503	VCP356257
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

WHITAKER CONTRACTING

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OIL CONDITION

Visc @ 40°C	cSt	314	559	410	314
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	412	2230	1704	329
Sodium	ppm	0	43	29	3
Potassium	ppm	33	183	151	37



WEAR METALS

Iron	ppm	1556	4725	3294	1206
Copper	ppm	0	10	8	3
Lead	ppm	0	2	<1	0
Tin	ppm	0	1	0	<1
Aluminum	ppm	98	529	474	94
Chromium	ppm	4	46	33	10
Molybdenum	ppm	3	8	6	3
Nickel	ppm	0	8	7	1
Titanium	ppm	2	35	27	4
Silver	ppm	0	0	0	0
Manganese	ppm	3	30	22	7
Vanadium	ppm	0	1	<1	<1



ADDITIVES

Calcium	ppm	184	948	834	447
Magnesium	ppm	44	212	173	89
Zinc	ppm	56	64	64	28
Phosphorus	ppm	786	940	892	660
Barium	ppm	5	0	5	0
Boron	ppm	65	152	135	88

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: 10809851
Signed: Jonathan Hester
Report Date: 04 Jan 2024



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GRAPHS

