



CONSTRUCTION EQUIPMENT

SWO-067551 VOLVO EC300EL 310346 - REAR RIGHT FINAL DRIVE



Sample No: VCP445724
Oil Type: GEAR OIL SAE 90W140
Job No: SWO-067551



SAMPLE INFORMATION

Sample Number	VCP445724	VCP380801	VCP388308	VCP357760
Sample Date	16 Nov 2023	16 Jan 2023	05 Oct 2022	25 Mar 2022
Machine Hours	8510	7568	7067	6010
Oil Hours	0	0	0	0
Oil Changed	Changed	Not Changd	Not Changd	Changed
Sample Status	SEVERE	SEVERE	SEVERE	SEVERE

WHITAKER CONTRACTING

692 CONVICT CAMP RD
 GUNTERVILLE, AL
 US 35976
 Contact: BROTHER WHITAKER
 BrotherWhitaker@whitaker-contracting.com
 T: (256)298-3905
 F:



OIL CONDITION

Visc @ 40°C	cSt	343	339	357	349
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CONTAMINATION

Water	%	0.126	NEG	NEG	NEG
Silicon	ppm	430	570	803	1433
Sodium	ppm	<1	2	3	2
Potassium	ppm	14	12	17	28

Diagnosis

We advise that you check all areas where dirt can enter the system. 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. There is a trace of moisture present in the oil. The oil is no longer serviceable due to the presence of contaminants.



WEAR METALS

Iron	ppm	2129	2262	2669	2921
Copper	ppm	5	5	6	7
Lead	ppm	0	<1	<1	<1
Tin	ppm	0	<1	0	0
Aluminum	ppm	58	110	122	215
Chromium	ppm	16	17	20	28
Molybdenum	ppm	4	3	4	4
Nickel	ppm	2	3	4	1
Titanium	ppm	5	7	9	17
Silver	ppm	0	0	0	0
Manganese	ppm	12	13	16	20
Vanadium	ppm	0	<1	<1	<1



ADDITIVES

Calcium	ppm	225	116	200	154
Magnesium	ppm	41	22	30	26
Zinc	ppm	38	40	52	28
Phosphorus	ppm	1485	942	946	947
Barium	ppm	0	0	0	0
Boron	ppm	243	158	157	158

Depot: WHIGUN
Unique No: 10754611
Signed: Jonathan Hester
Report Date: 27 Nov 2023



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GRAPHS

