



CONSTRUCTION EQUIPMENT

SWO-067551 VOLVO EC300EL 310346 - REAR LEFT FINAL DRIVE



Sample No: VCP445726
Oil Type: GEAR OIL SAE 90W140
Job No: SWO-067551



SAMPLE INFORMATION

Sample Number	VCP445726	VCP380802	VCP388304	VCP357759
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	363	357	337	337
-------------	-----	------------	-----	-----	-----



CONTAMINATION

Water	%	0.220	NEG	NEG	NEG
Silicon	ppm	735	939	513	1247
Sodium	ppm	0	3	2	2
Potassium	ppm	22	21	12	32

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. High concentration of visible metal present. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a light concentration of water present in the oil. The oil is no longer serviceable due to the presence of contaminants.



WEAR METALS

Iron	ppm	3003	3197	1832	1804
Copper	ppm	8	8	4	3
Lead	ppm	0	2	<1	<1
Tin	ppm	0	1	0	0
Aluminum	ppm	93	168	92	253
Chromium	ppm	22	25	14	19
Molybdenum	ppm	5	4	3	2
Nickel	ppm	3	5	2	<1
Titanium	ppm	8	12	7	17
Silver	ppm	0	0	0	<1
Manganese	ppm	17	18	11	15
Vanadium	ppm	<1	<1	<1	<1



ADDITIVES

Calcium	ppm	410	275	97	118
Magnesium	ppm	60	41	20	27
Zinc	ppm	26	38	42	27
Phosphorus	ppm	1057	913	905	1011
Barium	ppm	0	0	2	0
Boron	ppm	191	157	140	166

Depot: WHIGUN
Unique No: 10754609
Signed: Jonathan Hester
Report Date: 27 Nov 2023



CONSTRUCTION EQUIPMENT



GRAPHS

