



CONSTRUCTION EQUIPMENT

SWO066742 VOLVO EC250E 310275 - REAR RIGHT FINAL DRIVE



Sample No: VCP434414
Oil Type: GEAR OIL SAE 80W90
Job No: SWO066742



SAMPLE INFORMATION

Sample Number	VCP434414	VCP408974	VCP397073	VCP379715
Sample Date	13 Oct 2023	23 Jun 2023	17 Feb 2023	18 Oct 2022
Machine Hours	8082	7550	7053	6547
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	SEVERE	SEVERE	SEVERE	SEVERE

SAIIA CONSTRUCTION LLC

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OIL CONDITION

Visc @ 40°C	cSt	313	315	311	248
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CONTAMINATION

Water	%	0.225	---	---	---
Silicon	ppm	240	411	778	672
Sodium	ppm	4	12	28	22
Potassium	ppm	15	20	26	16



WEAR METALS

Iron	ppm	1068	1104	1659	937
Copper	ppm	0	<1	2	1
Lead	ppm	0	0	<1	<1
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	92	152	120	120
Chromium	ppm	13	11	16	13
Molybdenum	ppm	2	3	4	4
Nickel	ppm	2	1	1	<1
Titanium	ppm	5	6	9	6
Silver	ppm	<1	0	0	0
Manganese	ppm	6	7	10	6
Vanadium	ppm	<1	<1	<1	<1



ADDITIVES

Calcium	ppm	95	75	131	171
Magnesium	ppm	31	34	34	33
Zinc	ppm	65	54	78	107
Phosphorus	ppm	1078	1042	863	977
Barium	ppm	<1	0	<1	0
Boron	ppm	154	158	161	146

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 recommend an early resample to monitor this condition. Gear wear is indicated. There is a light concentration of water present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. Confirm oil type. The oil is no longer serviceable due to the presence of contaminants.

Depot: SAIBIR
Unique No: 10700551
Signed: Don Baldrige
Report Date: 20 Oct 2023



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GRAPHS

