



CONSTRUCTION EQUIPMENT

SWO-063484 VOLVO EC250E 310275 - REAR LEFT FINAL DRIVE



Sample No: VCP408949
Oil Type: GEAR OIL SAE 90W140
Job No: SWO-063484



SAMPLE INFORMATION

Sample Number	VCP408949	VCP397100	VCP379939	VCP366782
Sample Date	23 Jun 2023	17 Feb 2023	18 Oct 2022	25 Jul 2022
Machine Hours	7550	7053	6547	6234
Oil Hours	0	0	0	6234
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	312	291	193	328
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CONTAMINATION

Water	%	---	---	---	0.973
Silicon	ppm	591	836	722	2704
Sodium	ppm	19	31	23	71
Potassium	ppm	22	25	18	129



WEAR METALS

Iron	ppm	1628	1576	832	3850
Copper	ppm	<1	2	<1	4
Lead	ppm	0	<1	<1	1
Tin	ppm	<1	<1	<1	0
Aluminum	ppm	184	120	120	754
Chromium	ppm	17	17	10	52
Molybdenum	ppm	4	4	4	10
Nickel	ppm	2	2	<1	4
Titanium	ppm	7	8	7	40
Silver	ppm	0	0	0	0
Manganese	ppm	10	10	6	27
Vanadium	ppm	<1	<1	<1	2



ADDITIVES

Calcium	ppm	111	167	250	901
Magnesium	ppm	34	38	36	73
Zinc	ppm	62	90	138	354
Phosphorus	ppm	1010	942	1003	914
Barium	ppm	<1	<1	0	4
Boron	ppm	155	166	132	112

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. The oil is no longer serviceable due to the presence of contaminants.

Depot: SAIBIR
Unique No: 10536412
Signed: Don Baldrige
Report Date: 02 Jul 2023



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS

