



CONSTRUCTION EQUIPMENT

SWO-063484 VOLVO EC250E 310275 - REAR RIGHT FINAL DRIVE



Sample No: VCP408974
Oil Type: GEAR OIL SAE 90W140
Job No: SWO-063484



SAMPLE INFORMATION

Sample Number	VCP408974	VCP397073	VCP379715	VCP354410
Sample Date	23 Jun 2023	17 Feb 2023	18 Oct 2022	12 Aug 2022
Machine Hours	7550	7053	6547	6280
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	N/A
Sample Status	SEVERE	SEVERE	SEVERE	SEVERE

SAIIA CONSTRUCTION LLC

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OIL CONDITION

Visc @ 40°C	cSt	315	311	248	332
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CONTAMINATION

Water	%	---	---	---	0.615
Silicon	ppm	411	778	672	3952
Sodium	ppm	12	28	22	118
Potassium	ppm	20	26	16	176



WEAR METALS

Iron	ppm	1104	1659	937	5612
Copper	ppm	<1	2	1	5
Lead	ppm	0	<1	<1	2
Tin	ppm	0	<1	<1	2
Aluminum	ppm	152	120	120	1108
Chromium	ppm	11	16	13	66
Molybdenum	ppm	3	4	4	12
Nickel	ppm	1	1	<1	15
Titanium	ppm	6	9	6	55
Silver	ppm	0	0	0	0
Manganese	ppm	7	10	6	36
Vanadium	ppm	<1	<1	<1	2



ADDITIVES

Calcium	ppm	75	131	171	646
Magnesium	ppm	34	34	33	92
Zinc	ppm	54	78	107	269
Phosphorus	ppm	1042	863	977	745
Barium	ppm	0	<1	0	9
Boron	ppm	158	161	146	106

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. The iron level has decreased, but is still abnormal. 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: 10536413
Signed: Don Baldrige
Report Date: 02 Jul 2023



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GRAPHS

