



CONSTRUCTION EQUIPMENT

SPM675624 VOLVO EC250ELR 314201 - RIGHT FINAL DRIVE



Sample No: VCP444427
Oil Type: GEAR OIL SAE 80W90
Job No: SPM675624



SAMPLE INFORMATION

Sample Number	VCP444427	VCP423128	VCP404451	VCP357338
Sample Date	04 Mar 2024	21 Jul 2023	17 Jan 2023	02 Apr 2022
Machine Hours	3690	2533	2150	527
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Not Chngd
Sample Status	ABNORMAL	SEVERE	SEVERE	ABNORMAL

BELSON STEEL
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OIL CONDITION

Visc @ 40°C	cSt	151	153	151	176
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CONTAMINATION

Water	%	NEG	NEG	NEG	0.902
Silicon	ppm	117	639	421	15
Sodium	ppm	3	16	9	10
Potassium	ppm	6	65	44	5

Diagnosis

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor. All component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	372	1497	1289	80
Copper	ppm	<1	3	4	<1
Lead	ppm	<1	<1	0	0
Tin	ppm	0	<1	0	<1
Aluminum	ppm	26	147	103	<1
Chromium	ppm	7	19	17	2
Molybdenum	ppm	0	2	2	<1
Nickel	ppm	0	2	1	0
Titanium	ppm	1	8	6	0
Silver	ppm	0	0	0	<1
Manganese	ppm	13	16	12	2
Vanadium	ppm	0	<1	<1	0



ADDITIVES

Calcium	ppm	338	490	217	15
Magnesium	ppm	53	192	94	<1
Zinc	ppm	94	31	29	2
Phosphorus	ppm	383	1709	1924	295
Barium	ppm	0	0	3	0
Boron	ppm	4	158	171	<1

Depot: BELBOU
Unique No: 10930030
Signed: Don Baldrige
Report Date: 20 Mar 2024



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GRAPHS

