



CONSTRUCTION EQUIPMENT

SPM645360 VOLVO EC380EL 311492 - RIGHT FINAL DRIVE



Sample No: VCP384552
Oil Type: GEAR OIL SAE 80W90
Job No: SPM645360



SAMPLE INFORMATION

Sample Number	VCP384552	VCP414192	VCP403424	VCP312885
Sample Date	01 Dec 2023	21 Jul 2023	28 Feb 2023	09 Mar 2022
Machine Hours	3109	7780	6944	5012
Oil Hours	0	0	0	0
Oil Changed	Changed	Not Chngd	Changed	Changed
Sample Status	ABNORMAL	NORMAL	ABNORMAL	ABNORMAL

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OIL CONDITION

Visc @ 40°C	cSt	187	148	165	86.9
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CONTAMINATION

Water	%	NEG	0.097	0.296	NEG
Silicon	ppm	125	58	245	60
Sodium	ppm	3	3	8	3
Potassium	ppm	8	3	15	5



WEAR METALS

Iron	ppm	324	247	912	1189
Copper	ppm	<1	2	5	4
Lead	ppm	0	1	6	2
Tin	ppm	0	0	2	<1
Aluminum	ppm	23	17	73	15
Chromium	ppm	5	3	22	13
Molybdenum	ppm	3	<1	4	2
Nickel	ppm	0	0	1	<1
Titanium	ppm	<1	1	7	<1
Silver	ppm	0	0	0	0
Manganese	ppm	4	8	36	10
Vanadium	ppm	0	<1	1	<1



ADDITIVES

Calcium	ppm	2395	372	2979	105
Magnesium	ppm	82	27	160	21
Zinc	ppm	1005	150	908	15
Phosphorus	ppm	951	1525	835	558
Barium	ppm	0	0	2	0
Boron	ppm	45	47	8	13

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. 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.

Depot: BELBOU
Unique No: 10873753
Signed: Sean Felton
Report Date: 13 Feb 2024

VOLVO **GRAPHS**

