



CONSTRUCTION EQUIPMENT

A10652 VOLVO EC160E 3 10440 - REAR RIGHT FINAL DRIVE



Sample No: VCP411850
Oil Type: MOBIL MOBILUBE HD 80W90
Job No: A10652



SAMPLE INFORMATION

Sample Number	VCP411850	VCP384828	VCP246619	VCP250560
Sample Date	07 Jul 2023	27 Jan 2023	27 Feb 2020	19 Jul 2019
Machine Hours	3200	2090	900	575
Oil Hours	1000	1500	500	575
Oil Changed	Not Chngd	Changed	Not Chngd	Changed
Sample Status	ABNORMAL	SEVERE	SEVERE	SEVERE

K C CONSTRUCTION

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OIL CONDITION

Visc @ 40°C	cSt	317	431	290	191
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CONTAMINATION

Silicon	ppm	▲ 137	2065	507	666
Sodium	ppm	■ <1	45	4	2
Potassium	ppm	■ 5	114	35	46



WEAR METALS

Iron	ppm	▲ 551	4059	662	1252
Copper	ppm	■ 4	6	<1	0
Lead	ppm	■ 0	2	0	5
Tin	ppm	■ <1	1	0	0
Aluminum	ppm	▲ 20	120	146	172
Chromium	ppm	■ 2	25	5	13
Molybdenum	ppm	■ <1	6	<1	0
Nickel	ppm	■ 2	13	3	3
Titanium	ppm	1	42	10	13
Silver	ppm	0	<1	0	0
Manganese	ppm	■ 6	35	7	16
Vanadium	ppm	0	2	<1	<1



ADDITIVES

Calcium	ppm	■ 47	201	82	52
Magnesium	ppm	■ 3	70	22	2
Zinc	ppm	■ 33	55	36	9
Phosphorus	ppm	■ 693	849	798	265
Barium	ppm	■ 0	4	1	0
Boron	ppm	■ 9	122	92	0

Diagnosis

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

Depot: KCCIVY
Unique No: 10560353
Signed: Don Baldrige
Report Date: 17 Jul 2023



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GRAPHS

