



CONSTRUCTION EQUIPMENT

SWA233774-10 VOLVO EC220E 3140Z7 - REAR LEFT FINAL DRIVE



Sample No: VCP407394
Oil Type: VOLVO WB 101
Job No: SWA233774-10



ULSTER COUNTY RESOURCE RECOVERY AGENCY
 999 FLATBUSH AVE
 KINGSTON, NY
 US 12401
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SAMPLE INFORMATION

Sample Number	VCP407394	VCP323028	VCP303775	VCP267806
Sample Date	27 Apr 2023	21 Sep 2021	15 Apr 2021	17 Sep 2020
Machine Hours	6997	4100	3159	1980
Oil Hours	0	1000	1000	1000
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	NORMAL	NORMAL	NORMAL

OIL CONDITION

Visc @ 40°C	cSt	▲ 164	■ 154	■ 295	■ 102
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	■ 6	■ 1	■ 2	■ 6
Sodium	ppm	■ 2	■ <1	■ 2	■ 2
Potassium	ppm	■ 2	■ 0	■ 0	■ 0

WEAR METALS

Iron	ppm	■ 76	■ 14	■ 34	■ 29
Copper	ppm	■ <1	■ 0	■ <1	■ <1
Lead	ppm	■ 0	■ 0	■ <1	■ 2
Tin	ppm	■ 0	■ 0	■ <1	■ 0
Aluminum	ppm	■ <1	■ 0	■ <1	■ 1
Chromium	ppm	■ <1	■ <1	■ <1	■ <1
Molybdenum	ppm	■ <1	■ 1	■ <1	■ <1
Nickel	ppm	■ 1	0	<1	<1
Titanium	ppm	<1	0	<1	<1
Silver	ppm	0	<1	<1	0
Manganese	ppm	■ 1	■ <1	■ <1	■ <1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	▲ 68	■ 132	215	■ 1187
Magnesium	ppm	■ 18	■ 22	■ 42	■ 655
Zinc	ppm	▲ 41	■ 77	■ 76	■ 654
Phosphorus	ppm	■ 1039	■ 1008	■ 988	■ 731
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 182	■ 180	■ 199	■ 85

Diagnosis

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. There is no indication of any contamination in the oil. The oil viscosity is higher than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.

Depot: ULSKIN
Unique No: 10456828
Signed: Sean Felton
Report Date: 08 May 2023



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GRAPHS

