



CONSTRUCTION EQUIPMENT

SWA150612-10 VOLVO EC220EL 310769 - REAR RIGHT FINAL DRIVE



Sample No: VCP385562
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No: SWA150612-10



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

Sample Number	VCP385562	VCP321793	VCP289262	VCP241221
Sample Date	12 Jan 2023	26 Aug 2021	18 Sep 2020	28 Feb 2019
Machine Hours	6114	4369	3051	1013
Oil Hours	1000	4000	1000	1013
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	ABNORMAL	NORMAL	NORMAL

OIL CONDITION

Visc @ 40°C	cSt	144	145	145	179.5
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	5	0	2	7
Sodium	ppm	1	<1	<1	3
Potassium	ppm	0	0	0	12

WEAR METALS

Iron	ppm	99	46	27	258
Copper	ppm	<1	0	0	<1
Lead	ppm	0	0	<1	<1
Tin	ppm	<1	0	0	0
Aluminum	ppm	<1	<1	0	<1
Chromium	ppm	<1	<1	<1	2
Molybdenum	ppm	0	0	<1	<1
Nickel	ppm	0	0	<1	0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	<1	0	0
Manganese	ppm	<1	<1	<1	4
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	10	17	12	7
Magnesium	ppm	0	0	4	2
Zinc	ppm	9	6	6	11
Phosphorus	ppm	963	988	1026	389
Barium	ppm	0	0	0	<1
Boron	ppm	180	203	155	0

Diagnosis

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 condition of the oil is acceptable for the time in service.

Depot: ULSKIN
Unique No: 10332009
Signed: Don Baldrige
Report Date: 09 Feb 2023



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GRAPHS

