



CONSTRUCTION EQUIPMENT

201353 WASTE MGMT VOLVO EC350EL 310534 - SWING DRIVE



Sample No: VCE242357
Oil Type: VOLVO PREMIUM GEAR OIL 80W-90 GL-5
Job No: 201353 WASTE MGMT



SAMPLE INFORMATION

Sample Number	VCE242357	VCP213005	VCP233262	VCP222721
Sample Date	24 May 2019	31 Jan 2019	14 Dec 2018	03 Nov 2018
Machine Hours	1384	1044	764	518
Oil Hours	0	1044	764	518
Oil Changed	Not Changed	Changed	Not Changed	Not Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

STRONGCO EQUIPMENT--CALGARY

7923 54TH STREET SE
 CALGARY, AB
 CA T2C 4R7

Contact: Tracey Lewin
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OIL CONDITION

Visc @ 40°C	cSt	135	184	185	184
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CONTAMINATION

Silicon	ppm	4	11	10	10
Sodium	ppm	<1	2	2	2
Potassium	ppm	<1	1	1	<1



WEAR METALS

Iron	ppm	85	445	419	396
Copper	ppm	3	17	16	15
Lead	ppm	0	<1	<1	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	1	1	1
Chromium	ppm	2	9	8	8
Molybdenum	ppm	<1	<1	<1	<1
Nickel	ppm	0	<1	<1	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	2	8	8	8
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	4	9	8	8
Magnesium	ppm	<1	2	1	2
Zinc	ppm	4	13	12	12
Phosphorus	ppm	1925	407	408	401
Barium	ppm	<1	1	1	2
Boron	ppm	155	<1	1	1

Diagnosis

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

Depot: VOLVO3909
Unique No: 4874984
Signed: Wes Davis
Report Date: 28 May 2019



CONSTRUCTION EQUIPMENT



GRAPHS

