



CONSTRUCTION EQUIPMENT

600139 CRC VOLVO EC160E 310218 - SWING DRIVE



Sample No: VCP379881
Oil Type: GEAR OIL SAE 80W90
Job No: 600139 CRC



SAMPLE INFORMATION

Sample Number	VCP379881	VCP371487	VCP349186	VCP05211186
Sample Date	07 Jun 2023	09 Jan 2023	11 Oct 2022	11 Mar 2021
Machine Hours	0	14095	0	10749
Oil Hours	0	0	0	0
Oil Changed	N/A	Not Changd	N/A	N/A
Sample Status	NORMAL	NORMAL	NORMAL	SEVERE

PACWEST MACHINERY

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KENT, WA
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OIL CONDITION

Visc @ 40°C	cSt	135	170	212	186
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CONTAMINATION

Silicon	ppm	8	6	6	16
Sodium	ppm	0	<1	0	1
Potassium	ppm	<1	0	0	7



WEAR METALS

Iron	ppm	811	571	615	2582
Copper	ppm	37	39	39	36
Lead	ppm	<1	<1	0	<1
Tin	ppm	0	0	0	<1
Aluminum	ppm	2	2	3	8
Chromium	ppm	10	8	6	19
Molybdenum	ppm	0	1	1	4
Nickel	ppm	1	<1	0	<1
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	7	4	5	18
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	22	17	28	31
Magnesium	ppm	2	1	2	1
Zinc	ppm	218	135	109	137
Phosphorus	ppm	974	971	1137	836
Barium	ppm	1	0	0	0
Boron	ppm	113	121	142	135

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: VOLVO1271
Unique No: 10662067
Signed: Wes Davis
Report Date: 27 Sep 2023



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GRAPHS

