



CONSTRUCTION EQUIPMENT

600139 CRC VOLVO EC160E 310218 - DIESEL ENGINE



Sample No: VCP349200
Oil Type: DIESEL ENGINE OIL SAE 40
Job No: 600139 CRC



SAMPLE INFORMATION

Sample Number	VCP349200	VCP371488	VCP363355	VCP225300
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	Changed	N/A	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

PACWEST MACHINERY

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OIL CONDITION

Visc @ 100°C	cSt	13.4	13.3	13.2	12.8
Base Number (BN)	mg KOH/g	8.4	8.2	11.2	---
Oxidation (PA)	%	53	43	79	88



CONTAMINATION

Soot %	%	0.3	0.2	0.3	0.2
Nitration (PA)	%	60	57	68	62
Sulfation (PA)	%	50	46	62	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	11	7	16	11
Sodium	ppm	4	2	2	3
Potassium	ppm	<1	6	2	0



WEAR METALS

Iron	ppm	23	6	9	11
Copper	ppm	2	2	1	1
Lead	ppm	<1	1	0	0
Tin	ppm	<1	<1	<1	1
Aluminum	ppm	8	2	4	2
Chromium	ppm	<1	<1	<1	1
Molybdenum	ppm	21	12	35	45
Nickel	ppm	<1	<1	0	<1
Titanium	ppm	<1	<1	0	<1
Silver	ppm	0	<1	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	<1	0	0



ADDITIVES

Calcium	ppm	1941	1416	1739	1665
Magnesium	ppm	310	219	414	495
Zinc	ppm	1105	882	1103	992
Phosphorus	ppm	882	719	916	873
Barium	ppm	0	0	2	0
Boron	ppm	29	18	32	45

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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Depot: VOLVO1271
Unique No: 10661532
Signed: Wes Davis
Report Date: 26 Sep 2023



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GRAPHS

