



CONSTRUCTION EQUIPMENT

225210 CRC VOLVO EC160E 310147 - DIESEL ENGINE



Sample No: VCP434589
Oil Type: CASTROL 15W40
Job No: 225210 CRC



SAMPLE INFORMATION

Sample Number	VCP434589	VCP379883	VCP346235	VCP371480
Sample Date	21 Sep 2023	26 Apr 2023	31 Mar 2023	09 Jan 2023
Machine Hours	12010	9553	0	10533
Oil Hours	0	0	0	0
Oil Changed	Changed	N/A	N/A	Changed
Sample Status	ATTENTION	ABNORMAL	ABNORMAL	ATTENTION

PACWEST MACHINERY

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OIL CONDITION

Visc @ 100°C	cSt	13.4	13.0	13.6	14.1
Base Number (BN)	mg KOH/g	10.3	10.1	7.2	7.8
Oxidation (PA)	%	88	76	50	49



CONTAMINATION

Soot %	%	0.4	0.2	0.4	0.4
Nitration (PA)	%	77	60	75	73
Sulfation (PA)	%	65	59	57	52
Glycol	%	0.0	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	16	11	19	13
Sodium	ppm	238	187	365	94
Potassium	ppm	2	2	6	8



WEAR METALS

Iron	ppm	15	7	13	9
Copper	ppm	2	1	2	1
Lead	ppm	0	<1	<1	1
Tin	ppm	1	<1	<1	<1
Aluminum	ppm	7	<1	7	10
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	43	37	14	12
Nickel	ppm	<1	0	<1	<1
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	<1	<1	<1



ADDITIVES

Calcium	ppm	1730	1829	2118	1530
Magnesium	ppm	567	488	243	220
Zinc	ppm	1197	1161	1158	925
Phosphorus	ppm	940	936	916	726
Barium	ppm	0	0	0	0
Boron	ppm	25	27	6	8

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Sodium and/or potassium levels are high. Test for glycol is negative. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Depot: VOLVO1271
Unique No: 10674122
Signed: Don Baldrige
Report Date: 05 Oct 2023



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GRAPHS

