



CONSTRUCTION EQUIPMENT

11097 VOLVO ECR235D 210351 - DIESEL ENGINE



Sample No: VCP440556
Oil Type: MOBIL 15W40
Job No: 11097



SAMPLE INFORMATION

Sample Number	VCP440556	VCP407486	VCP399882	VCP378619
Sample Date	13 Sep 2023	04 May 2023	13 Jan 2023	08 Sep 2022
Machine Hours	8650	8170	7920	7730
Oil Hours	0	250	0	250
Oil Changed	N/A	Changed	Changed	Changed
Sample Status	NORMAL	ATTENTION	NORMAL	NORMAL

JAMES J ANDERSON
 6958 TORRESDALE AVENUE
 PHILADELPHIA, PA
 US 19135
 Contact: JOHN HERBUT
 herb@jjaconstruction.com
 T: (215)850-9051
 F: (215)427-0208



OIL CONDITION

Visc @ 100°C	cSt	12.9	10.5	13.3	13.6
Base Number (BN)	mg KOH/g	6.5	7.4	8.8	8.5
Oxidation (PA)	%	47	46	54	62



CONTAMINATION

Soot %	%	0.2	0.2	0.2	0.2
Nitration (PA)	%	65	63	57	78
Sulfation (PA)	%	50	48	50	55
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	1.1	<1.0	<1.0
Silicon	ppm	5	6	10	5
Sodium	ppm	2	<1	<1	4
Potassium	ppm	2	<1	2	5



WEAR METALS

Iron	ppm	16	17	26	14
Copper	ppm	2	1	1	<1
Lead	ppm	<1	0	0	1
Tin	ppm	<1	<1	<1	1
Aluminum	ppm	4	10	4	3
Chromium	ppm	<1	<1	2	1
Molybdenum	ppm	14	23	33	71
Nickel	ppm	<1	<1	0	<1
Titanium	ppm	<1	2	11	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	<1



ADDITIVES

Calcium	ppm	2376	1868	1669	1855
Magnesium	ppm	148	344	383	112
Zinc	ppm	1203	1151	1042	1168
Phosphorus	ppm	961	916	915	942
Barium	ppm	0	0	0	0
Boron	ppm	4	9	34	53

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: JAAPHI
Unique No: 10649669
Signed: Wes Davis
Report Date: 20 Sep 2023



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS

