

CONSTRUCTION EQUIPMENT A10608 VOLVO ECR235D 210265 - DIESEL ENGINE



Sample No: VCP408932
Oil Type: MOBIL 15W40

Job No: A10608

SAMPLE INFORMATION				
Sample Number	VCP408932	VCP341004	VCBM001650	VCP296112
Sample Date	27 Jun 2023	08 Nov 2021	01 Apr 2021	01 Mar 2021
Machine Hours	7470	6940	6720	6667
Oil Hours	250	250	50	250
Oil Changed	Changed	Changed	Not Changd	Changed
Sample Status	ABNORMAL	ATTENTION	ABNORMAL	ABNORMAL

OIL CONDI	TION				
Visc @ 100°C	cSt	12.8	12.35	1 2.0	■13.0
Base Number (BN)	mg KOH/g	11.2			
Oxidation (PA)	%	81	76	71	78

CONTAI	MINATION				
Soot %	%	■0.2	□0.2	0.1	□ 0.2
Nitration (PA)	%	63	55	43	58
Sulfation (PA)	%	61	60	61	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	0.4	<1.0
Silicon	ppm	12	1 0	■8	1 3
Sodium	ppm	4	4	2	4
Potassium	ppm	■ 0	1	<u> </u>	<u> </u>

WEAR	METALS				
Iron	ppm	137	4 9	2 3	▲ 115
Copper	ppm	2	1	- <1	2
Lead	ppm	0	- <1	- <1	0
Tin	ppm	1	- <1	- <1	< 1
Aluminum	ppm	7	6	2	■8
Chromium	ppm	2	1	- <1	_2
Molybdenum	ppm	41	4 9	5 1	47
Nickel	ppm	■<1	- <1	- <1	< 1
Titanium	ppm	4	<1	<1	<1
Silver	ppm	■ 0	0	<1	0
Manganese	ppm	■<1	- <1	- <1	< 1
Vanadium	ppm	0	0	0	<1

ADDITION						
Calcium	ppm	1775	■1712	■ 1651	■1705	
Magnesium	ppm	537	520	■409	520	
Zinc	ppm	1124	■1025	■ 1044	■965	
Phosphorus	ppm	943	943	■857	■907	
Barium	ppm	□ 0	□0	□0	□0	
Boron	ppm	■ 53	5 2	□ 72	■53	



DYER QUARRY

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Diagnosis

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Cylinder, crank, or cam shaft wear is indicated. All other 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 acceptable for the time in service.

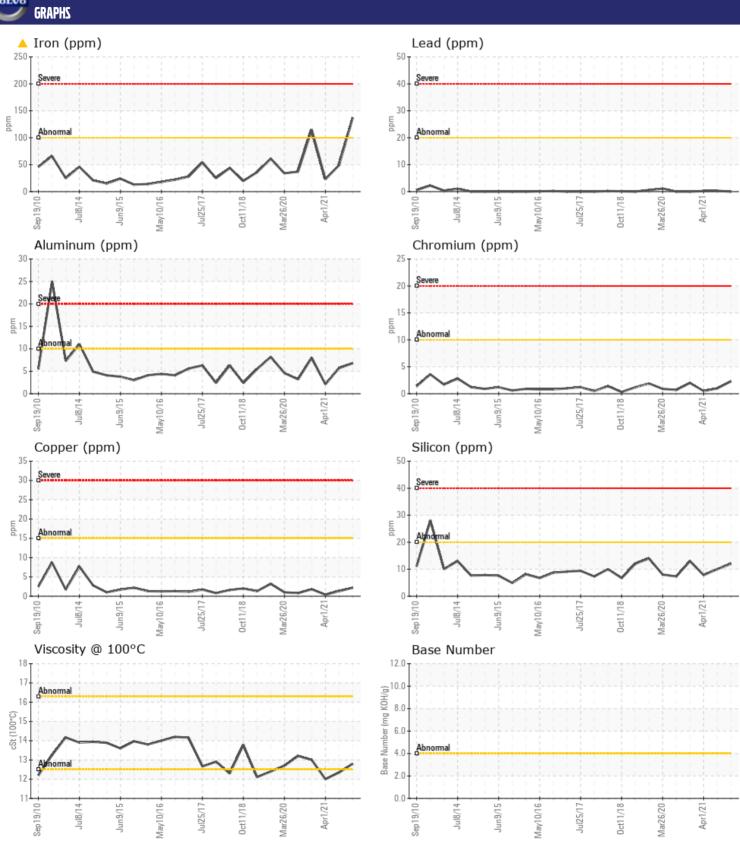
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CONSTRUCTION EQUIPMENT







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