CONSTRUCTION EQUIPMENT 92 VOLVO ECR235DL 210429 - DIESEL ENGINE



Sample No: VC462460

92

VOIN

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

Job No:

Zinc

Barium

Boron

Phosphorus

	INFORMATION				
Sample Number		VC462460	VCE180200	VCE152957	VCE251672
Sample Date		27 Dec 2023	27 Jul 2022	18 Oct 2019	05 Dec 2016
Machine Hours		3634	3243	2387	1105
Oil Hours		500	0	0	400
Oil Changed		Changed	Changed	Changed	Changed
Sample Status		ABNORMAL	NORMAL	NORMAL	NORMAL
OIL CON	ITION				
Visc @ 100°C	cSt	12.8	12.7	13.5	13.56
Base Number (BN		10.6	10.7		
Oxidation (PA)	%	81	71	65	48
CONTAM	INATION				
Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.3	0.2	0.3	0.1
Nitration (PA)	%	64	65	72	50
Sulfation (PA)	%	61	59	54	44
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	16	20	9	7
Sodium	ppm	4	7	4	7
Potassium	ppm	5	26	3	2
VOLVO					
🤍 WEAR M	ETALS				
Iron	ppm	A 108	76	92	18
Copper	ppm	5	8	4	3
Lead	ppm	0	1	0	 <1
Tin	ppm	2	2	 <1	7
Aluminum	ppm	<u> </u>	8	12	5
Chromium	ppm	2	2	3	 <1
Molybdenum	ppm	41	45	44	62
Nickel	ppm		□ <1	□ <1	1
Titanium	ppm	<1	<1	<1	0
Silver	ppm	0	<1	0	0
Manganese	ppm	1	0	□ <1 0	0 < 1
Vanadium	ppm	0	0	0	0
VOLVO					
	2				
Calcium	ppm	1635	1716	1924	1687
Magnesium	ppm	503	393	283	516
					- 1001

990

825

0

85

1155

936

0

69

1231

957

0

92



CHEMUNG CO HWY DEPT 803 CHEMUNG STREET HORSEHEADS, NY US 14845 Contact: TIM COLLINS

T: (607)739-3898 F:

Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.Piston, ring and cylinder wear is indicated. 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.

 Depot:
 CHEHOR

 Unique No:
 10843956

 Signed:
 Sean Felton

 Report Date:
 24 Jan 2024

1117

889

0 🔲

38

ppm

ppm

ppm

ppm

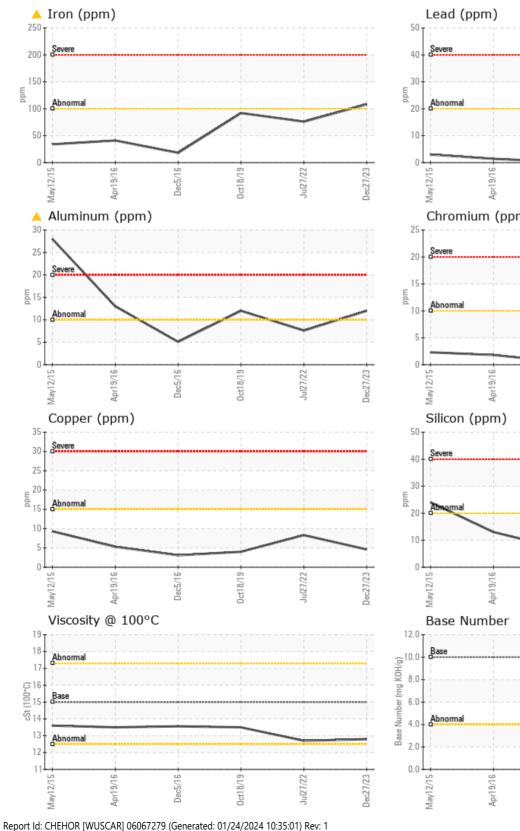
Contact/Location: TIM COLLINS - CHEHOR

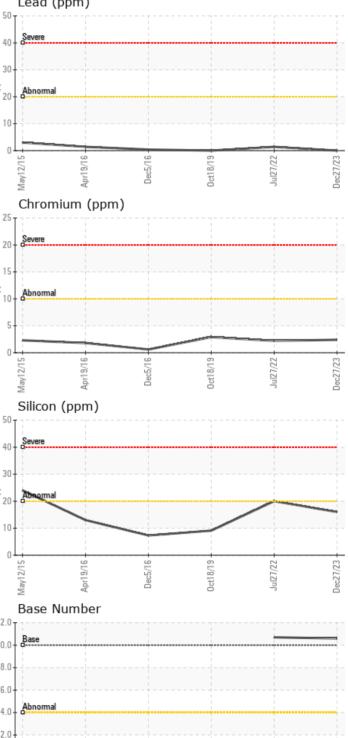
CONSTRUCTION EQUIPMENT



GRAPHS

VOLVO





Contact/Location: TIM COLLINS - CHEHOR

Jul27/22.

Oct18/19.

Dec5/16

Dec27/23