

CONSTRUCTION EQUIPMENT 688511 VOLVO ECR145 310112 - DIESEL ENGINE



Sample No: VCP455122

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

Job No: 688511

VOLVO					
SAMPLE	INFORMATION				
Sample Number		VCP455122	VCP393311	VCP320422	VCP291167
Sample Date		19 Mar 2024	14 Mar 2023	25 Aug 2021	14 Oct 2020
Machine Hours		6977	6267	5286	4776
Oil Hours		0	0	0	0
Oil Changed		Changed	Changed	Changed	N/A
Sample Status		ABNORMAL	ABNORMAL	NORMAL	NORMAL
VOLVO	ITION				
OIL COND					
Visc @ 100°C	cSt	<u> </u>	12.7	■ 13.0	12.7
Base Number (BN)		10.6	□ 10.4		
Oxidation (PA)	%	77	82	81	85
VOLVO					
CONTAM	INATION				
_		NEG	NEG	NEG	NEG
Water	%				
Soot %	%	■0.5	0.3	0.2	0.2
Nitration (PA)	%	74	65	64	67
Sulfation (PA)	%	57	61	61	63
Glycol - ·	%	NEG	NEG	NEG	NEG
Fuel	%	1.0	<1.0	<1.0	<1.0
Silicon	ppm	9	8	6	5
Sodium	ppm	2	- <1	■3	3
Potassium	ppm	0	2	< 1	0
VOLVO					
WEAR MI	ETALS				
Iron		□30	<u></u> □42	<u> </u>	□ 16
	ppm	5	1 42	3	■ 16 ■ 3
Copper Lead	ppm	0	□ < 1	0	1 0
Lead Tin	ppm	0	_	_	
Aluminum	ppm	<u> </u>	■<1 ▲ 31	= <1	= <1
	ppm	16 1	31	□ 12 □ 1	6
Chromium	ppm		_		□ < 1 □ 3.9
Molybdenum	ppm	44	44	4 3	□38
Nickel	ppm	0	<1	- <1	0
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	0	0	<1
Manganese	ppm		1	- <1	<1
Vanadium	ppm	0	<1	0	0

1724

485

1092

■908

2

42

1646

485

1068

918

0

42

1692

542

1108

906

0

43



HUBBARD CONSTRUCTION
303 WEST LANDSTREET ROAD
ORLANDO, FL
US 32824
Contact: RAY BIRKO
ray.birko@hubbard.com
T: (407)855-3535
F: (407)857-1282

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. The aluminum level has decreased, but is still abnormal. All other component wear rates are normal. Fuel content negligible. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Depot:HUBORLUnique No:10941521Signed:Don BaldridgeReport Date:27 Mar 2024

Contact/Location: RAY BIRKO - HUBORL

1795

521

1187

1024

0

29

ADDITIVES

ppm

ppm

ppm

ppm

ppm

ppm

Calcium

Zinc

Barium

Boron

Magnesium

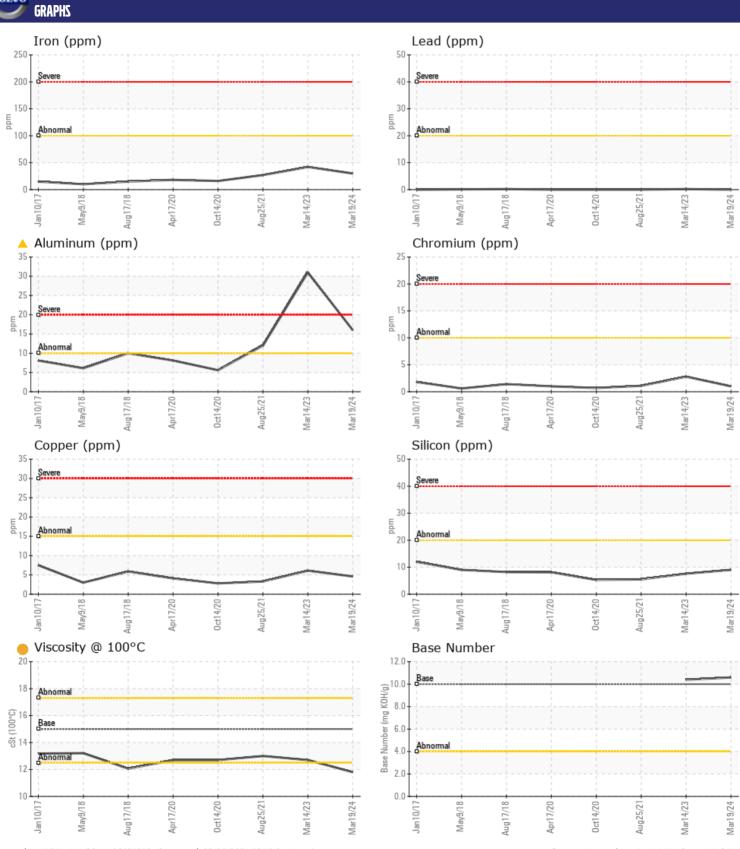
Phosphorus



CONSTRUCTION EQUIPMENT







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Contact/Location: RAY BIRKO - HUBORL