

CONSTRUCTION EQUIPMENT 24415 VOLVO L220H 3130 - DIESEL ENGINE



Sample No: VCP420550

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

Job No: 24415

Lead

Aluminum

Chromium

Nickel

Silver

Titanium

Manganese

Molybdenum

Tin

ppm

ppm

ppm

ppm

ppm

ppm

ppm

ppm

ppm

-<1

-<1

2

-<1

34

|| <1

0

Report Id: VOLVO3387 [WUSCAR] 06009286 (Generated: 11/19/2023 12:28:27) Rev: 1

- < 1

<1

SAMPLE IN	NFORMATION				
Sample Number		VCP420550	VCP405645	VCP425747	VCP401778
Sample Date		10 Nov 2023	07 Aug 2023	19 May 2023	16 Feb 2023
Machine Hours		11602	10822	10086	8984
Oil Hours		1000	1000	1000	1000
Oil Changed		Changed	Changed	Changed	Changed
Sample Status		ATTENTION	ATTENTION	NORMAL	NORMAL
OIT CONDI.	TION				
Visc @ 100°C	cSt	12.4	<u>▲</u> 11.6	12.9	□13.1
Base Number (BN)	mg KOH/g	■9.5	■9.2	■8.9	■6.4
Oxidation (PA)	%	76	63	82	94
CONTAMIN	NATION				
Soot %	%	■ 0.2	□0.2	■ 0.3	■0.9
Nitration (PA)	%	60	60	73	93
Sulfation (PA)	%	58	53	60	67
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	□ 0.3	<1.0	< 1.0
Silicon	ppm	■5	4	4	4
Sodium	ppm	4	□ 0	2	■ 3
Potassium	ppm	2	0	3	0
WEAR ME	TALS				
Iron	ppm	5	5	7	4
Copper	ppm	1	0	2	- <1



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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. All component wear rates are normal. 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.

Vanadium	ppm	0	0	<1	0				
ADDITIVES									
Calcium	ppm	1629	■2254	■ 1794	1628				
Magnesium	ppm	476	429	531	521				
Zinc	ppm	1075	1317	1165	1144				
Phosphorus	ppm	■900	1 031	■890	■935				
Barium	ppm	■0	□0	0	0				
Roron	nnm	m 21	m 35	m 27	m/19				

0

0

< 1</p>

< 1</p>

24

0

0

0

1

2

1

3

< 1</p>

38

< 1</p>

0

< 1</p>

<1

< 1

< 1</p>

0

< 1</p>

42

< 1</p>

0

< 1

0

Depot:VOLVO3387Unique No:10743048Signed:Don BaldridgeReport Date:19 Nov 2023



CONSTRUCTION EQUIPMENT





