

CONSTRUCTION EQUIPMENT 12427 CWS VOLVO L 180H 4720 - DIESEL ENGINE



Sample No: VCP370929

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

Job No: 12427 CWS

SAMPLE IN	NFORMATION					
Sample Number	•	VCP370929	VCP370926	VCP335593	VCP335596	
Sample Date		18 Jul 2023	06 Mar 2023	27 Jan 2022	20 Nov 2021	
Machine Hours		17565	16497	13087	12444	
Oil Hours		17565	16497	0	0	
Oil Changed		Changed	Changed	Changed	Changed	
Sample Status		ATTENTION	ABNORMAL	NORMAL	NORMAL	
OIL CONDITION						
Visc @ 100°C	cSt	11.2	□12.4	12.6	12.3	
Base Number (BN)	mg KOH/g	■6.8	□7.0	■10.8	□10.3	
Oxidation (PA)	%	84	97	88	86	
CONTAMINATION						
Soot %	%	■ 0.2	■0.3	□ 0.1	■0.1	

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Nitration (PA)	%	67	90	63	62
Sulfation (PA)	%	60	65	66	64
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	■ 0.9	< 1.0	<1.0	<1.0
Silicon	ppm	12	4 24	□ 9	■11
Sodium	ppm	■4	4	2	2
Potassium	ppm	■ 0	0	0	- <1
WEAR METALS					

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Iron	ppm	11	9	4	4
Copper	ppm	2	1		- <1
Lead	ppm	0	- <1	0	< 1
Tin	ppm	■<1	0	□ 0	< 1
Aluminum	ppm	■<1	- <1	2	 <1
Chromium	ppm	■ 0	- <1	- <1	- <1
Molybdenum	ppm	■38	■39	42	4 0
Nickel	ppm	■ 0	0	□ 0	□0
Titanium	ppm	<1	0	0	<1
Silver	ppm	■ 0	0	<1	0
Manganese	ppm	■<1	< 1	<1	 <1
Vanadium	ppm	<1	0	0	0

ADJITIODA					
Calcium	ppm	1454	■1567	■ 1759	■1814
Magnesium	ppm	491	458	■537	501
Zinc	ppm	989	977	1149	1104
Phosphorus	ppm	■844	775	■984	■996
Barium	ppm	■0	0	□0	■0
Boron	ppm	22	1 4	■58	■37



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Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. All 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:VOLVO0117Unique No:10565414Signed:Don BaldridgeReport Date:25 Jul 2023



CONSTRUCTION EQUIPMENT





