

CONSTRUCTION EQUIPMENT VOLVO L220H 3589 - DIESEL ENGINE



Sample No: VCP441039

Oil Type: SHELL ROTELLA T3 15W40

Job No:

VOLVO	NEODMATION				
SAMPLE II	NFORMATION	ļ.			
Sample Number		VCP441039	VCP440882	VCP440507	VCP440503
Sample Date		13 May 2024	22 Apr 2024	04 Apr 2024	18 Mar 2024
Machine Hours		1816	1519	1194	897
Oil Hours		297	325	297	308
Oil Changed		Changed	Changed	Changed	Changed
Sample Status		ABNORMAL	ABNORMAL	ABNORMAL	NORMAL
OIL CONDI	TION				
Visc @ 100°C	cSt	13.1	13.2	13.0	□13.0
Base Number (BN)	mg KOH/g	6.4	6.7	□ 6.5	□ 6.6
Oxidation (PA)	%	39	39	39	39
CONTAMIN	JATION				
		, NEG	NEC	NEC	NEC
Water	%	NEG	NEG	NEG	NEG
Soot %	%	■0.1	0.1	0.1	0.1
Nitration (PA)	%	52	52	53	53
Sulfation (PA)	%	46	47	47	47
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	10	6	5	8
Sodium	ppm	3	= <1	<u> </u>	2
Potassium	ppm	4	- <1	□ 0	2
WEAR ME	TALC				
WEAK ME	IML2				
Iron	ppm	5	1	2	4
Copper	ppm	<u> </u>	▲ 182	<u>▲</u> 84	□10
Lead	ppm	■3	1	2	- <1
Tin	ppm	■ 3	0	0	- <1
Aluminum	ppm	■3	0	 <1	3
Chromium	ppm	2	0	0	 <1
Molybdenum	ppm	13	8	1 1	1 4
Nickel	ppm	2	0	0	- <1
Titanium	ppm	2	0	0	<1
Silver	ppm	3	0	0	0
Manganese	ppm	2	0	0	- <1
Vanadium	ppm	2	0	<1	<1
VOLVO					
ADDITIVE	<u> </u>				
Calcium	ppm	2195	2467	2302	■2244
Magnesium	ppm	42	39	70	69
Zinc	ppm	1029	1 192	■967	■1078
Phosphorus	ppm	876	1004	■ 915	■926
Barium	ppm	1	0	■0	□ 0



COVANTA ENERGY

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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 copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). 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.

Depot:COVWESUnique No:11033710Signed:Don BaldridgeReport Date:20 May 2024

Contact/Location: ? SAWYER - COVWES

ppm

Boron



CONSTRUCTION EQUIPMENT





