

CONSTRUCTION EQUIPMENT VOLVO L220H 3589 - DIESEL ENGINE



Sample No: VCP441406

Oil Type: SHELL ROTELLA T3 15W40

Job No:

SAMPLE II	NFORMATION				
Sample Number		VCP441406	VCP441039	VCP440882	VCP440507
Sample Date		29 May 2024	13 May 2024	22 Apr 2024	04 Apr 2024
Machine Hours		2113	1816	1519	1194
Oil Hours		297	297	325	297
Oil Changed		Changed	Changed	Changed	Changed
Sample Status		ABNORMAL	ABNORMAL	ABNORMAL	ABNORMAL
odinpie Status		ADITORINAL	/ IDI VOI (IVI) (L	/ IDIVORIVI/ IE	/ IDI VOI (IVI) (L
OIL CONDI	TION				
Visc @ 100°C	cSt	13.1	13.1	□13.2	13.0
Base Number (BN)		6.3	6.4	6.7	6.5
Oxidation (PA)	%	37	39	39	39
Skiddion (17t)	70	3,	33	33	33
VOLVO					
CONTAMII	NATION				
Water	%	NEG	NEG	NEG	NEG
Soot %	%	■ 0.1	0.1	□ 0.1	■ 0.1
Nitration (PA)	%	52	52	52	53
Sulfation (PA)	%	46	46	47	47
Glycol	%	NEG	NEG	NEG	NEG
uel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	■ 7	□10	6	5
Sodium	ppm	■<1	3	- <1	1
Potassium	ppm	<u> </u>	4	□ <1	□0
		_	_	_	_
WEAR ME	TALS				
ron	ppm	3	5	<u> </u>	<u></u> 2
Copper	ppm	<u>△</u> 35	1 09	<u>▲</u> 182	<u> </u>
Lead	ppm	■0	3	1	2
Tin .	ppm	= <1	3	0	0
Aluminum	ppm	1	3	0	<1
Chromium	ppm		2	0	0
Molybdenum	ppm	8	1 3	■8	11
Nickel	ppm	■ <1	2	1 0	0
Titanium	ppm	<1	2	0	0
Silver	ppm	■0	3	1 0	0
Manganese	ppm	■0	2	0	0
/anadium	ppm	0	2	0	<1
	PPIII		_	V	
ADDITIVE	S				
Calcium	ppm	2242	2195	2 467	2302
Magnesium	ppm	36	42	39	70
Zinc	ppm	■ 1057	■ 1029	■ 1192	□967
Phosphorus	ppm	905	876	□ 1004	915
Barium	ppm	■0	■ 1	□ 0	0
Boron		4	10	3	9
ווטוטם	ppm	_4			



COVANTA ENERGY

141 CRANBERRY HWY
WEST WAREHAM, MA
US 02576
Contact: SAWYER
ssawyer@woodcomachinery.com
T:
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. The copper level has decreased, but is still 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:11059534Signed:Sean FeltonReport Date:04 Jun 2024

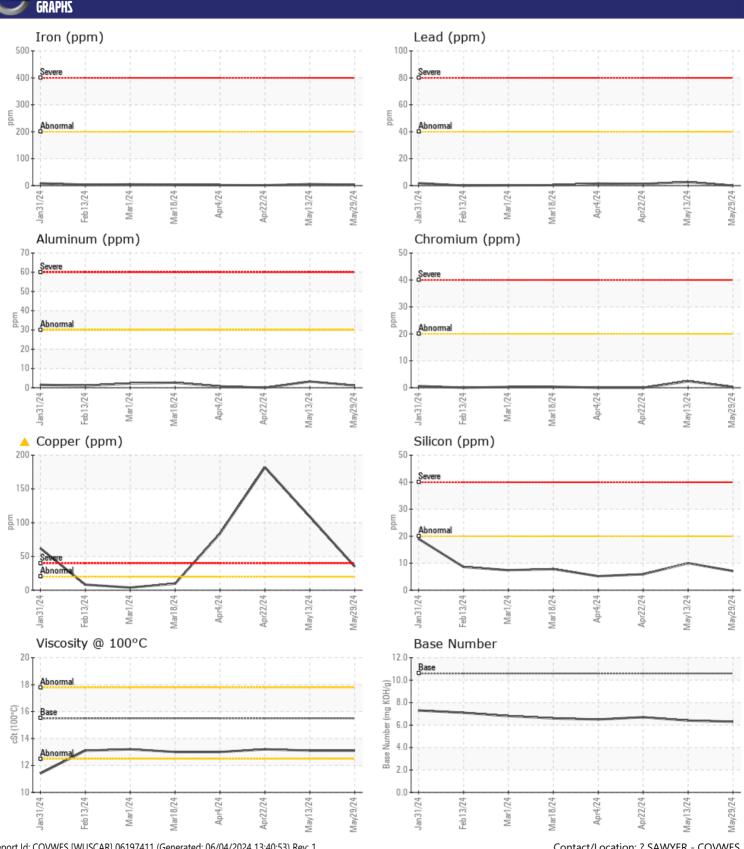
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CONSTRUCTION EQUIPMENT







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