

CONSTRUCTION EQUIPMENT VOLVO L90H 625046 - DIESEL ENGINE



Sample No: VCP417366

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

Job No:

Boron

ppm

Report Id: RIPTAM [WUSCAR] 05895859 (Generated: 07/13/2023 13:11:51) Rev: 1

JOD INO.					
SAMPLE II	NFORMATION				
Sample Number		VCP417366	VCP385335	VCP349362	VCP313718
Sample Date		12 Jun 2023	16 Sep 2022	28 Jan 2022	09 Jun 2021
Machine Hours		3112	2470	2000	1458
Oil Hours		500	500	500	500
Oil Changed		Changed	Changed	N/A	Changed
Sample Status		ABNORMAL	ABNORMAL	NORMAL	NORMAL
OIL CONDI	TION				
			— 12.2	- 42.2	-424
Visc @ 100°C	cSt	■12.9	13.2	13.3	■13.1
Base Number (BN)		■10.4	11.7	10.1	74
Oxidation (PA)	%	86	88	80	71
VOLVO					
CONTAMIN	NATION				
Soot %	%	□ 0.6	□0.5	□0.5	□0.4
Nitration (PA)	%	76	74	77	79
Sulfation (PA)	%	63	66	60	58
Glycol	%	NEG	NEG	NEG	NEG
- Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	■ 7	1 0	□ 9	6
Sodium	ppm	2	3	5	4
Potassium	ppm	2	6	6	4
WEAR ME	2147				
_		= 20		= 24	— 10
ron	ppm	20	14	21	18
Copper	ppm	2	2	2	2
Lead	ppm	0	0 1	<1 <1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 <	0
Tin Aluminum	ppm	■<1 ▲ 30	<u> </u>	□2 □16	□ 1 □ 7
Chromium	ppm	2	20		2
	ppm	39	■2 ■38	■2 ■37	□2 □36
Molybdenum Nickel	ppm	0	1	0	<1
Titanium	ppm	0	<1	<1	<1
Silver	ppm	O	0	0	0
Manganese		□ <1	1	□ <1	□ <1
Vanadium	ppm	<1	1	<1	0
Variaciani	ррш	~ 1	I	~ 1	O
ADDITIVES	7				
		=4505	21604	= 1606	- 4544
Calcium	ppm	■ 1585	□ 1681	■ 1606	■ 1511
Magnesium	ppm	482	5 09	■ 540 ■ 1060	□ 640 □ 1070
Zinc	ppm	■ 1039	1125	1069	1070
Phosphorus	ppm	847	941	926	904
Barium	ppm	0	0	□ 0	0



RIPA AND ASSOCIATES

10149 FISHER AVENUE TAMPA, FL US 33619 Contact: ROBERT TURNER rturner@ripatampa.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 aluminum level is abnormal. 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:RIPTAMUnique No:10551669Signed:Don BaldridgeReport Date:13 Jul 2023



CONSTRUCTION EQUIPMENT





