



CONSTRUCTION EQUIPMENT

VOLVO L90H 5624326 - DIESEL ENGINE



Sample No: VCP407158
Oil Type: VALVOLINE 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP407158	VCP416426	VCP407665	VCP294650
Sample Date	19 Oct 2023	08 Sep 2023	24 May 2023	30 Nov 2020
Machine Hours	7750	7531	7068	3192
Oil Hours	219	463	0	0
Oil Changed	Changed	Changed	N/A	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

CITY CARTING
 221 OLD GATE LN
 MILFORD, CT
 US 06460
 Contact: TAVINS BANKS
 tavins@citycart.net
 T: (203)223-3885
 F:

OIL CONDITION

Visc @ 100°C	cSt	13.6	13.0	12.0	12.3
Base Number (BN)	mg KOH/g	7.6	9.7	6.5	---
Oxidation (PA)	%	43	74	46	35

Diagnosis

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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

CONTAMINATION

Soot %	%	0.2	0.2	0.2	0.2
Nitration (PA)	%	52	53	60	55
Sulfation (PA)	%	46	58	50	47
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	7	4	6
Sodium	ppm	<1	2	0	4
Potassium	ppm	0	2	2	0

WEAR METALS

Iron	ppm	1	5	7	7
Copper	ppm	0	<1	1	<1
Lead	ppm	0	<1	0	<1
Tin	ppm	0	0	<1	0
Aluminum	ppm	2	<1	2	2
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	18	44	60	20
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1856	1883	2068	2239
Magnesium	ppm	172	497	178	137
Zinc	ppm	954	1201	1066	1004
Phosphorus	ppm	881	956	888	896
Barium	ppm	4	0	0	<1
Boron	ppm	12	41	26	29

Depot: CITMILCON
Unique No: 10715333
Signed: Wes Davis
Report Date: 31 Oct 2023



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GRAPHS

