



CONSTRUCTION EQUIPMENT

VOLVO L90H 5624326 - DIESEL ENGINE



Sample No: VCP438664
Oil Type: VALVOLINE 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP438664	VCP430819	VCP407158	VCP416426
Sample Date	24 Jan 2024	01 Dec 2023	19 Oct 2023	08 Sep 2023
Machine Hours	0	8030	7750	7531
Oil Hours	0	280	219	463
Oil Changed	Changed	Changed	Changed	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	13.0	12.4	13.6	13.0
Base Number (BN)	mg KOH/g	7.0	7.1	7.6	9.7
Oxidation (PA)	%	37	36	43	74

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

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.1	0.2	0.2
Nitration (PA)	%	53	49	52	53
Sulfation (PA)	%	45	44	46	58
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	6	5	7
Sodium	ppm	<1	0	<1	2
Potassium	ppm	4	2	0	2



WEAR METALS

Iron	ppm	3	3	1	5
Copper	ppm	<1	0	0	<1
Lead	ppm	1	0	0	<1
Tin	ppm	<1	0	0	0
Aluminum	ppm	3	1	2	<1
Chromium	ppm	0	<1	0	<1
Molybdenum	ppm	29	57	18	44
Nickel	ppm	<1	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	2000	1938	1856	1883
Magnesium	ppm	123	176	172	497
Zinc	ppm	1029	932	954	1201
Phosphorus	ppm	891	741	881	956
Barium	ppm	0	4	4	0
Boron	ppm	17	30	12	41

Depot: CITMILCON
Unique No: 10857579
Signed: Wes Davis
Report Date: 01 Feb 2024



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VOLVO GRAPHS

