



CONSTRUCTION EQUIPMENT

VOLVO L90H 5624326 - DIESEL ENGINE



Sample No: VCP437555
Oil Type: VALVOLINE 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP437555	VCP437217	VCP438664	VCP430819
Sample Date	04 May 2024	21 Mar 2024	24 Jan 2024	01 Dec 2023
Machine Hours	0	0	0	8030
Oil Hours	0	0	0	280
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	12.8	12.6	13.0	12.4
Base Number (BN)	mg KOH/g	8.3	6.9	7.0	7.1
Oxidation (PA)	%	50	36	37	36

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 %	%	0.1	0.1	0.2	0.1
Nitration (PA)	%	48	51	53	49
Sulfation (PA)	%	48	44	45	44
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	5	6	6
Sodium	ppm	2	0	<1	0
Potassium	ppm	0	0	4	2

WEAR METALS

Iron	ppm	1	4	3	3
Copper	ppm	<1	<1	<1	0
Lead	ppm	0	0	1	0
Tin	ppm	0	0	<1	0
Aluminum	ppm	1	2	3	1
Chromium	ppm	0	0	0	<1
Molybdenum	ppm	68	29	29	57
Nickel	ppm	0	<1	<1	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	<1	0
Vanadium	ppm	0	0	<1	0

ADDITIVES

Calcium	ppm	1753	2087	2000	1938
Magnesium	ppm	570	144	123	176
Zinc	ppm	1184	1012	1029	932
Phosphorus	ppm	1005	881	891	741
Barium	ppm	0	0	0	4
Boron	ppm	82	28	17	30

Depot: CITMILCON
Unique No: 11019666
Signed: Wes Davis
Report Date: 10 May 2024



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VOLVO GRAPHS

