



CONSTRUCTION EQUIPMENT

VOLVO L90H 05625448 - DIESEL ENGINE



Sample No: VCP453886
Oil Type: VALVOLINE 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP453886	VCP436481	VCP407114	VCP438662
Sample Date	13 Jun 2024	24 Apr 2024	06 Mar 2024	22 Jan 2024
Machine Hours	6806	0	6296	6059
Oil Hours	258	0	237	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ATTENTION

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	12.5	11.8
Base Number (BN)	mg KOH/g	6.6	6.7	6.8	6.5
Oxidation (PA)	%	36	36	37	34

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	0.1	0.1
Nitration (PA)	%	53	52	52	50
Sulfation (PA)	%	44	45	43	43
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	0.3
Silicon	ppm	6	5	5	6
Sodium	ppm	1	<1	<1	8
Potassium	ppm	2	2	0	14



WEAR METALS

Iron	ppm	0	4	4	3
Copper	ppm	0	5	<1	<1
Lead	ppm	0	0	0	1
Tin	ppm	0	<1	0	<1
Aluminum	ppm	2	2	1	3
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	35	26	30	26
Nickel	ppm	0	0	0	1
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	<1	0	<1



ADDITIVES

Calcium	ppm	2041	1891	1855	1724
Magnesium	ppm	126	148	172	123
Zinc	ppm	1063	963	941	948
Phosphorus	ppm	826	832	851	816
Barium	ppm	0	0	0	0
Boron	ppm	23	29	34	20

Depot: CITMILCON
Unique No: 11098965
Signed: Wes Davis
Report Date: 27 Jun 2024



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GRAPHS

