



CONSTRUCTION EQUIPMENT

S50601934 IAA VOLVO L90H 624601 - DIESEL ENGINE



Sample No: VCP440839
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: S50601934 IAA



SAMPLE INFORMATION

Sample Number	VCP440839	VCP345487	VCP340501	VCP384362
Sample Date	18 Mar 2024	30 May 2023	16 Feb 2023	27 Oct 2022
Machine Hours	8988	7208	6697	6142
Oil Hours	0	0	0	0
Oil Changed	N/A	Changed	N/A	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

VCES- VOLVO CONSTRUCTION EQUIPMENT

1944 MARINA BLVD
 SAN LEANDRO, CA
 US 94577

Contact: DAVE HILDEBRAND
 david.hildebrand@vcesvolvo.com
 T: (510)357-9131
 F: (925)294-9240



OIL CONDITION

Visc @ 100°C	cSt	12.6	13.7	14.0	14.1
Base Number (BN)	mg KOH/g	10.1	10.4	10.6	11.6
Oxidation (PA)	%	83	92	92	98

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 %	%	0.7	0.5	0.6	0.7
Nitration (PA)	%	65	72	78	85
Sulfation (PA)	%	64	66	66	70
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	7	7	12
Sodium	ppm	1	2	2	<1
Potassium	ppm	1	<1	0	1



WEAR METALS

Iron	ppm	11	10	11	30
Copper	ppm	<1	<1	<1	2
Lead	ppm	<1	0	1	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	5	4	6	6
Chromium	ppm	<1	<1	<1	1
Molybdenum	ppm	43	41	41	40
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1787	1812	1750	1860
Magnesium	ppm	522	554	510	488
Zinc	ppm	1183	1253	1188	1157
Phosphorus	ppm	939	1003	928	943
Barium	ppm	0	0	0	<1
Boron	ppm	36	33	27	22

Depot: VOLVO4487
Unique No: 10940391
Signed: Wes Davis
Report Date: 25 Mar 2024



CONSTRUCTION EQUIPMENT



GRAPHS

