



CONSTRUCTION EQUIPMENT

310706 IAA VOLVO L90H 623595 - DIESEL ENGINE



Sample No: VCP407740
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 310706 IAA



SAMPLE INFORMATION

Sample Number	VCP407740	VCP405270	VCP306871	VCP287538
Sample Date	19 Jul 2023	19 Dec 2022	11 Feb 2021	15 Oct 2020
Machine Hours	12919	11656	8149	7614
Oil Hours	0	500	500	500
Oil Changed	N/A	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



ALTA EQUIPMENT

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OIL CONDITION

Visc @ 100°C	cSt	12.7	12.7	13.28	14.0
Base Number (BN)	mg KOH/g	10.1	11.4	---	---
Oxidation (PA)	%	76	83	80	63



CONTAMINATION

Soot %	%	0.3	0.3	0.3	0.3
Nitration (PA)	%	59	69	63	76
Sulfation (PA)	%	59	63	63	57
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	4	5	4
Sodium	ppm	2	4	2	4
Potassium	ppm	0	1	<1	3



WEAR METALS

Iron	ppm	5	8	7	7
Copper	ppm	0	<1	<1	<1
Lead	ppm	0	0	0	0
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	2	2	2	0
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	40	53	35	9
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	<1	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1664	1754	1613	1496
Magnesium	ppm	490	486	514	698
Zinc	ppm	1204	1154	1022	825
Phosphorus	ppm	992	956	941	784
Barium	ppm	1	0	0	0
Boron	ppm	46	43	54	76

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.

Depot: VOLV00142
Unique No: 10566560
Signed: Wes Davis
Report Date: 24 Jul 2023



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VOLVO GRAPHS

