



CONSTRUCTION EQUIPMENT

595111 IPS VOLVO L90H 626154 - DIESEL ENGINE



Sample No: VCP416999
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 595111 IPS



SAMPLE INFORMATION

Sample Number	VCP416999	VCP402570	VCP365077	VCP363245
Sample Date	08 Sep 2023	07 Mar 2023	24 Sep 2022	27 May 2022
Machine Hours	3150	2134	3070	542
Oil Hours	500	500	500	542
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	14.3	14.0	13.8	12.7
Base Number (BN)	mg KOH/g	9.8	9.6	11.1	10.7
Oxidation (PA)	%	57	56	64	76



CONTAMINATION

Soot %	%	0.2	0.1	0.4	0.2
Nitration (PA)	%	52	54	68	56
Sulfation (PA)	%	51	50	57	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	6	14
Sodium	ppm	2	<1	<1	4
Potassium	ppm	<1	0	0	<1



WEAR METALS

Iron	ppm	70	79	11	34
Copper	ppm	2	<1	1	8
Lead	ppm	0	0	1	1
Tin	ppm	<1	<1	1	2
Aluminum	ppm	8	<1	4	4
Chromium	ppm	1	1	2	2
Molybdenum	ppm	59	58	62	37
Nickel	ppm	<1	0	<1	0
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	<1	0	0
Manganese	ppm	2	2	<1	4
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	1129	1059	1087	1687
Magnesium	ppm	1044	988	984	646
Zinc	ppm	1362	1287	1233	1084
Phosphorus	ppm	1106	997	1089	1003
Barium	ppm	0	0	0	0
Boron	ppm	2	0	2	47

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: VOLVO2990
Unique No: 10647178
Signed: Jonathan Hester
Report Date: 19 Sep 2023



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GRAPHS

