



CONSTRUCTION EQUIPMENT

D13045 WM A1 VOLVO L70H 624717 - DIESEL ENGINE



Sample No: VCP430781
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: D13045 WM A1



SAMPLE INFORMATION

Sample Number	VCP430781	VCP429537	VCP418998	VCP418686
Sample Date	30 Nov 2023	19 Oct 2023	08 Sep 2023	04 Aug 2023
Machine Hours	3491	3224	2966	2770
Oil Hours	0	258	617	421
Oil Changed	Changed	Not Changd	Changed	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.4	12.9	13.48	12.5
Base Number (BN)	mg KOH/g	10.0	9.5	10.0	10.5
Oxidation (PA)	%	87	77	80	83

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	0.4	0.7	0.4
Nitration (PA)	%	72	53	65	56
Sulfation (PA)	%	65	60	63	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	6	8	6
Sodium	ppm	0	2	2	1
Potassium	ppm	2	0	<1	<1



WEAR METALS

Iron	ppm	15	9	15	8
Copper	ppm	<1	<1	1	<1
Lead	ppm	0	0	<1	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	5	4	8	4
Chromium	ppm	1	<1	1	<1
Molybdenum	ppm	47	45	45	43
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	1728	1750	1866	1796
Magnesium	ppm	517	525	549	530
Zinc	ppm	1171	1217	1245	1200
Phosphorus	ppm	1003	1012	990	964
Barium	ppm	0	0	0	0
Boron	ppm	32	44	29	44

Depot: VOLVO0069
Unique No: 10769487
Signed: Wes Davis
Report Date: 06 Dec 2023



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GRAPHS

