



CONSTRUCTION EQUIPMENT

634484 ALTA RENTS VOLVO L70H 623714 - DIESEL ENGINE



Sample No: VCP430599
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 634484 ALTA RENTS



SAMPLE INFORMATION

Sample Number	VCP430599	VCP412627	VCP408208	VCP360641
Sample Date	21 Nov 2023	16 Aug 2023	29 Mar 2023	18 Apr 2022
Machine Hours	3717	3333	2744	1915
Oil Hours	0	0	0	1500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.1	13.1	13.3	13.3
Base Number (BN)	mg KOH/g	10.6	9.7	9.5	10.8
Oxidation (PA)	%	78	78	83	86

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 %	%	0.2	0.3	0.6	0.4
Nitration (PA)	%	53	58	81	80
Sulfation (PA)	%	58	58	61	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	6	10	7
Sodium	ppm	2	3	2	3
Potassium	ppm	0	0	1	<1



WEAR METALS

Iron	ppm	8	14	41	32
Copper	ppm	<1	2	3	4
Lead	ppm	<1	0	0	<1
Tin	ppm	<1	<1	<1	2
Aluminum	ppm	3	3	19	▲ 45
Chromium	ppm	1	1	5	7
Molybdenum	ppm	42	44	51	76
Nickel	ppm	0	<1	<1	<1
Titanium	ppm	<1	<1	0	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	1	1
Vanadium	ppm	<1	<1	0	0



ADDITIVES

Calcium	ppm	1710	1810	1741	1735
Magnesium	ppm	568	530	615	588
Zinc	ppm	1192	1147	1194	1113
Phosphorus	ppm	945	947	985	921
Barium	ppm	0	0	2	0
Boron	ppm	36	31	15	50

Depot: VOLVO0096
Unique No: 10764799
Signed: Wes Davis
Report Date: 30 Nov 2023



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GRAPHS

