



CONSTRUCTION EQUIPMENT

SPM579631 VOLVO L350H 1138 - DIESEL ENGINE



Sample No: VCP351473
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SPM579631



SAMPLE INFORMATION

Sample Number	VCP351473	VCP404845	VCP376840	VCP359456
Sample Date	11 Aug 2023	25 Apr 2023	23 Jul 2022	18 Apr 2022
Machine Hours	4582	3754	2667	1914
Oil Hours	0	500	0	0
Oil Changed	N/A	Changed	Changed	N/A
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

ALTA EQUIPMENT
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OIL CONDITION

Visc @ 100°C	cSt	13.8	13.3	13.7	13.0
Base Number (BN)	mg KOH/g	9.2	9.9	9.5	8.9
Oxidation (PA)	%	87	81	94	85

CONTAMINATION

Soot %	%	1.3	0.7	1.5	1
Nitration (PA)	%	78	63	88	83
Sulfation (PA)	%	66	64	73	68
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	4	7	8
Sodium	ppm	3	1	1	<1
Potassium	ppm	1	0	0	7

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.

WEAR METALS

Iron	ppm	12	7	16	16
Copper	ppm	3	1	14	75
Lead	ppm	<1	0	1	2
Tin	ppm	1	0	2	1
Aluminum	ppm	4	1	3	4
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	40	37	44	44
Nickel	ppm	<1	0	3	4
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	<1	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1729	1586	1738	1727
Magnesium	ppm	540	477	522	583
Zinc	ppm	1225	1034	1143	1058
Phosphorus	ppm	952	803	884	908
Barium	ppm	0	0	0	0
Boron	ppm	20	33	23	17

Depot: VOLVO0142
Unique No: 10605798
Signed: Wes Davis
Report Date: 17 Aug 2023



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VOLVO GRAPHS

