



CONSTRUCTION EQUIPMENT

621615 GERDAU VOLVO L350H 1220 - DIESEL ENGINE



Sample No: VCP434976
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 621615 GERDAU



SAMPLE INFORMATION

Sample Number	VCP434976	VCP407600	VCP411191	VCP402578
Sample Date	14 Nov 2023	31 May 2023	03 May 2023	09 Mar 2023
Machine Hours	5623	3182	2659	1600
Oil Hours	500	500	1000	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

ALTA EQUIPMENT COMPANY - METRO WEST
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OIL CONDITION

Visc @ 100°C	cSt	13.0	14.2	13.2	13.7
Base Number (BN)	mg KOH/g	8.5	9.5	8.0	8.6
Oxidation (PA)	%	69	57	61	59

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 acceptable for the time in service.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.4	0.3	0.4	0.3
Nitration (PA)	%	70	53	68	58
Sulfation (PA)	%	59	53	57	55
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	3	3	4
Sodium	ppm	2	<1	2	0
Potassium	ppm	3	<1	<1	3



WEAR METALS

Iron	ppm	6	6	10	12
Copper	ppm	3	2	8	68
Lead	ppm	0	0	<1	<1
Tin	ppm	<1	<1	<1	2
Aluminum	ppm	<1	<1	0	2
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	53	57	43	63
Nickel	ppm	<1	<1	1	2
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1087	1078	1026	1202
Magnesium	ppm	845	980	679	871
Zinc	ppm	1190	1264	991	1235
Phosphorus	ppm	987	999	810	1020
Barium	ppm	0	0	0	2
Boron	ppm	9	0	0	2

Depot: VOLVO2990
Unique No: 10764761
Signed: Don Baldrige
Report Date: 01 Dec 2023



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VOLVO GRAPHS

