



CONSTRUCTION EQUIPMENT

606083 GERDAU VOLVO L350H 1221 - DIESEL ENGINE



Sample No: VCP431348
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 606083 GERDAU



SAMPLE INFORMATION

Sample Number	VCP431348	VCP407136	VCP406662	VCP411147
Sample Date	20 Sep 2023	07 Jun 2023	10 May 2023	12 Apr 2023
Machine Hours	6073	4286	3621	2947
Oil Hours	1000	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



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OIL CONDITION

Visc @ 100°C	cSt	13.1	13.9	13.9	13.7
Base Number (BN)	mg KOH/g	6.5	9.5	9.6	9.2
Oxidation (PA)	%	67	54	57	55



CONTAMINATION

Soot %	%	0.5	0.2	0.2	0.2
Nitration (PA)	%	71	57	52	48
Sulfation (PA)	%	59	52	53	51
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	2	3	3
Sodium	ppm	1	0	1	<1
Potassium	ppm	5	1	<1	0



WEAR METALS

Iron	ppm	15	5	5	5
Copper	ppm	6	2	2	2
Lead	ppm	<1	0	0	0
Tin	ppm	1	<1	<1	0
Aluminum	ppm	3	0	<1	<1
Chromium	ppm	0	0	0	0
Molybdenum	ppm	59	56	58	57
Nickel	ppm	<1	<1	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	0	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1070	1005	1073	1056
Magnesium	ppm	978	884	970	946
Zinc	ppm	1234	1151	1258	1266
Phosphorus	ppm	954	952	1016	1008
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	<1

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: 10668497
Signed: Don Baldrige
Report Date: 28 Sep 2023



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GRAPHS

