



CONSTRUCTION EQUIPMENT

621716 GERDAU VOLVO L350H 1151 - DIESEL ENGINE



Sample No: VCP431430
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 621716 GERDAU



SAMPLE INFORMATION

Sample Number	VCP431430	VCP406663	VCP399387	VCP380842
Sample Date	27 Nov 2023	10 May 2023	07 Feb 2023	07 Dec 2022
Machine Hours	10487	10014	9556	9121
Oil Hours	500	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	14.1	14.4	14.5	14.3
Base Number (BN)	mg KOH/g	8.8	9.5	9.1	10.4
Oxidation (PA)	%	57	57	55	64

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	0.2	0.2	0.4
Nitration (PA)	%	55	53	52	61
Sulfation (PA)	%	52	52	51	57
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	2	2	2
Sodium	ppm	0	1	0	1
Potassium	ppm	2	<1	0	0



WEAR METALS

Iron	ppm	4	3	4	5
Copper	ppm	6	<1	1	<1
Lead	ppm	0	0	<1	<1
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	1	<1	<1	<1
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	57	58	59	56
Nickel	ppm	0	0	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1010	1075	1026	1062
Magnesium	ppm	831	967	954	909
Zinc	ppm	1115	1258	1217	1255
Phosphorus	ppm	935	1015	988	966
Barium	ppm	3	0	0	0
Boron	ppm	4	<1	0	<1

Depot: VOLVO2990
Unique No: 10778848
Signed: Don Baldrige
Report Date: 11 Dec 2023



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GRAPHS

