



CONSTRUCTION EQUIPMENT

579226 GERDAU SENNEBOGEN 825 3313 - DIESEL ENGINE



Sample No: VCP416320
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 579226 GERDAU



SAMPLE INFORMATION

Sample Number	VCP416320	VCP403678	VCP332892	---
Sample Date	12 Jul 2023	11 Jan 2023	30 Mar 2022	---
Machine Hours	3332	2845	1924	---
Oil Hours	500	500	1924	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	ATTENTION	---

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OIL CONDITION

Visc @ 100°C	cSt	13.1	12.6	▲ 11.21	---
Base Number (BN)	mg KOH/g	8.5	8.7	9.0	---
Oxidation (PA)	%	61	64	78	---

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

Soot %	%	0.1	0.1	0.2	---
Nitration (PA)	%	63	63	83	---
Sulfation (PA)	%	53	56	62	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	▲ 2.9	---
Silicon	ppm	3	4	24	---
Sodium	ppm	2	0	6	---
Potassium	ppm	0	1	10	---



WEAR METALS

Iron	ppm	13	15	31	---
Copper	ppm	1	2	18	---
Lead	ppm	0	0	<1	---
Tin	ppm	0	0	<1	---
Aluminum	ppm	<1	<1	4	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	62	63	55	---
Nickel	ppm	0	0	<1	---
Titanium	ppm	<1	0	1	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	<1	4	---
Vanadium	ppm	<1	0	0	---



ADDITIVES

Calcium	ppm	1140	1136	1689	---
Magnesium	ppm	1067	938	518	---
Zinc	ppm	1309	1240	1189	---
Phosphorus	ppm	1061	1030	1032	---
Barium	ppm	0	1	0	---
Boron	ppm	0	0	95	---

Depot: VOLVO2990
Unique No: 10565410
Signed: Don Baldrige
Report Date: 25 Jul 2023



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GRAPHS

