



CONSTRUCTION EQUIPMENT

SPM621713 BL DUKE SENNEBOGEN 835M 835.0.2811 - DIESEL ENGINE



Sample No: VCP425295
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM621713 BL DUKE



SAMPLE INFORMATION

Sample Number	VCP425295	VCP410629	VCP406071	VCP387239
Sample Date	18 Oct 2023	04 May 2023	01 Mar 2023	05 Jan 2023
Machine Hours	5187	4011	3580	3120
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

ALTA EQUIPMENT CO - ORLAND PARK
 5000 INDUSTRIAL HWY
 GARY, IN
 US 46406
 Contact: DAVE ENG
 DAVE.ENG@ALTG.COM
 T: (312)350-2560
 F:



OIL CONDITION

Visc @ 100°C	cSt	13.4	13.7	13.0	12.8
Base Number (BN)	mg KOH/g	6.3	7.5	8.7	8.2
Oxidation (PA)	%	104	95	82	84

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 %	%	0.2	0.1	0.2	0.2
Nitration (PA)	%	86	79	82	85
Sulfation (PA)	%	66	63	60	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	2	2	3
Sodium	ppm	<1	1	0	<1
Potassium	ppm	11	2	4	4



WEAR METALS

Iron	ppm	11	8	17	13
Copper	ppm	2	<1	1	1
Lead	ppm	0	0	0	0
Tin	ppm	0	0	<1	<1
Aluminum	ppm	3	<1	2	2
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	60	60	58	60
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1030	1109	1079	1097
Magnesium	ppm	928	1003	921	934
Zinc	ppm	1215	1304	1222	1247
Phosphorus	ppm	971	1019	988	971
Barium	ppm	7	0	0	0
Boron	ppm	0	<1	<1	0

Depot: VOLVO8885
Unique No: 10737821
Signed: Don Baldrige
Report Date: 14 Nov 2023



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GRAPHS

