



CONSTRUCTION EQUIPMENT

SPM687468 BL DUKE SENNEBOGEN 835ME 835.0.2810 - DIESEL ENGINE



Sample No: VCP4363146
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM687468 BL DUKE



SAMPLE INFORMATION

Sample Number	VCP4363146	VCP416878	VCP410962	VCP387161
Sample Date	15 Mar 2024	18 Oct 2023	09 Mar 2023	17 Feb 2023
Machine Hours	7652	6955	5516	5387
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	MARGINAL	ABNORMAL

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	12.3	12.5	13.5	11.9
Base Number (BN)	mg KOH/g	6.6	5.9	9.0	6.8
Oxidation (PA)	%	98	104	67	92

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	0.1	0.2
Nitration (PA)	%	88	83	52	92
Sulfation (PA)	%	63	65	54	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	3.4	6.7
Silicon	ppm	8	2	3	2
Sodium	ppm	0	<1	<1	0
Potassium	ppm	4	6	<1	2



WEAR METALS

Iron	ppm	12	7	1	9
Copper	ppm	2	1	<1	<1
Lead	ppm	3	0	0	0
Tin	ppm	2	0	<1	<1
Aluminum	ppm	6	3	0	2
Chromium	ppm	<1	<1	<1	0
Molybdenum	ppm	59	55	54	54
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	<1	<1	0
Silver	ppm	<1	0	0	0
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	<1	<1	<1	0



ADDITIVES

Calcium	ppm	1087	959	981	981
Magnesium	ppm	957	846	867	782
Zinc	ppm	1196	1112	1160	1037
Phosphorus	ppm	926	859	904	828
Barium	ppm	1	7	0	0
Boron	ppm	0	0	0	0

Depot: VOLVO8885
Unique No: 10940993
Signed: Wes Davis
Report Date: 26 Mar 2024



CONSTRUCTION EQUIPMENT



GRAPHS

