

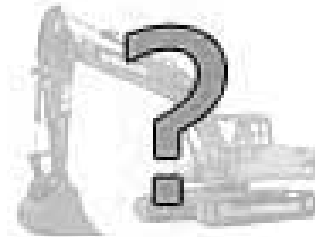


CONSTRUCTION EQUIPMENT

SPM688428 SENNEBOGEN 835M 835.0.3000 - DIESEL ENGINE



Sample No: VCP427238
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM688428



SAMPLE INFORMATION

Sample Number	VCP427238	VCP386784	VCP433710	VCP382829
Sample Date	22 Mar 2024	11 Jan 2024	26 Oct 2023	25 May 2023
Machine Hours	4647	4647	4088	3007
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.8	12.8	13.0	13.2
Base Number (BN)	mg KOH/g	9.0	8.8	8.2	8.5
Oxidation (PA)	%	73	72	73	70

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	0.2
Nitration (PA)	%	77	75	76	74
Sulfation (PA)	%	56	55	57	56
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	2	3	4	2
Sodium	ppm	<1	<1	2	0
Potassium	ppm	0	3	3	4



WEAR METALS

Iron	ppm	11	10	10	7
Copper	ppm	<1	1	1	<1
Lead	ppm	<1	<1	0	0
Tin	ppm	<1	<1	0	<1
Aluminum	ppm	1	1	2	0
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	62	59	61	60
Nickel	ppm	0	<1	0	0
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	<1	<1	<1	0



ADDITIVES

Calcium	ppm	1156	971	1045	1054
Magnesium	ppm	1040	892	1021	872
Zinc	ppm	1246	1165	1340	1178
Phosphorus	ppm	1049	927	1003	975
Barium	ppm	0	1	0	0
Boron	ppm	0	<1	0	0

Depot: BELBOU
Unique No: 10989307
Signed: Wes Davis
Report Date: 22 Apr 2024



CONSTRUCTION EQUIPMENT



GRAPHS

