

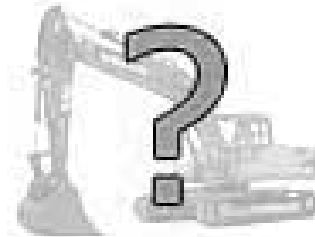


CONSTRUCTION EQUIPMENT

SENNEBOGEN 825 825.0.3324 - DIESEL ENGINE



Sample No: VCP406652
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP406652	VCP327357	VCP370237	VCP367704
Sample Date	20 Jul 2023	20 Jun 2023	03 May 2023	09 Dec 2022
Machine Hours	9414	9153	8745	7605
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	ATTENTION	ATTENTION	ATTENTION

UNITED SCRAP
 1545 S CICERO AVE
 CICERO, IL
 US 60804
 Contact: RON LUCHTENBURG
 rluchten@unitedscrap.com
 T:
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OIL CONDITION

Visc @ 100°C	cSt	▲ 11.4	▲ 11.6	▲ 12.1	▲ 12.1
Base Number (BN)	mg KOH/g	■ 6.3	■ 7.0	■ 7.7	■ 11.2
Oxidation (PA)	%	88	92	76	61

Diagnosis

Oil and filter change at the time of sampling has been noted. 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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	■ 0.1	■ 0.1	■ 0.1	■ 0.1
Nitration (PA)	%	68	67	47	48
Sulfation (PA)	%	60	62	55	56
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	▲ 2.2
Silicon	ppm	■ 4	■ 4	■ 4	■ 3
Sodium	ppm	■ 0	■ <1	■ 0	■ 0
Potassium	ppm	■ 0	■ 0	■ <1	■ 2

WEAR METALS

Iron	ppm	■ <1	■ 2	■ 2	■ 6
Copper	ppm	■ 0	■ 0	■ 0	■ <1
Lead	ppm	■ 0	■ 0	■ 0	■ 0
Tin	ppm	■ 0	■ 0	■ 0	■ 0
Aluminum	ppm	■ 2	■ 2	■ 0	■ 2
Chromium	ppm	■ 0	■ 0	■ <1	■ 0
Molybdenum	ppm	■ 72	■ 60	■ 31	■ 42
Nickel	ppm	■ 0	■ 0	■ 0	■ 0
Titanium	ppm	■ 0	■ 0	■ 0	■ 0
Silver	ppm	■ 0	■ 0	■ 0	■ <1
Manganese	ppm	■ 0	■ 0	■ <1	■ <1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	■ 1943	■ 1817	■ 1737	■ 1827
Magnesium	ppm	■ 121	■ 297	■ 425	■ 434
Zinc	ppm	■ 1130	■ 1153	■ 1116	■ 1114
Phosphorus	ppm	■ 986	■ 978	■ 904	■ 933
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 57	■ 51	■ 45	■ 57

Depot: UNICICIL
Unique No: 10802533
Signed: Angela Borella
Report Date: 22 Dec 2023



CONSTRUCTION EQUIPMENT



GRAPHS

