

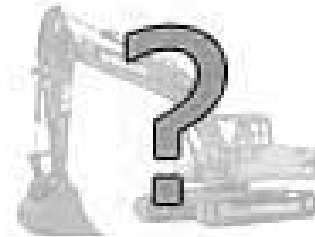


CONSTRUCTION EQUIPMENT

SENNEBOGEN 825 825.0.2340 - DIESEL ENGINE



Sample No: VCP441412
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP441412	VCP380671	VCP382963	VCP342408
Sample Date	24 Nov 2023	01 Jun 2023	15 Mar 2023	05 Aug 2022
Machine Hours	23941	22090	21145	19661
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

UNITED SCRAP

1545 S CICERO AVE
 CICERO, IL
 US 60804
 Contact: RON LUCHTENBURG
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 T:
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OIL CONDITION

Visc @ 100°C	cSt	14.1	14.1	13.6	14.9
Base Number (BN)	mg KOH/g	9.6	7.8	7.9	10.2
Oxidation (PA)	%	56	67	52	102

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 %	%	0.1	0.6	0.4	0.7
Nitration (PA)	%	42	82	63	101
Sulfation (PA)	%	51	60	53	76
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	5	4	6
Sodium	ppm	<1	2	1	2
Potassium	ppm	<1	<1	2	1



WEAR METALS

Iron	ppm	2	12	13	18
Copper	ppm	<1	3	3	<1
Lead	ppm	0	1	<1	<1
Tin	ppm	0	0	<1	0
Aluminum	ppm	1	2	2	5
Chromium	ppm	0	<1	<1	1
Molybdenum	ppm	59	94	20	95
Nickel	ppm	0	<1	<1	<1
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	<1	<1



ADDITIVES

Calcium	ppm	1168	2142	2257	1898
Magnesium	ppm	938	213	158	546
Zinc	ppm	1331	1177	1089	1150
Phosphorus	ppm	996	970	890	927
Barium	ppm	0	<1	0	0
Boron	ppm	8	101	39	129

Depot: UNICICIL
Unique No: 10755213
Signed: Wes Davis
Report Date: 27 Nov 2023



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS

