

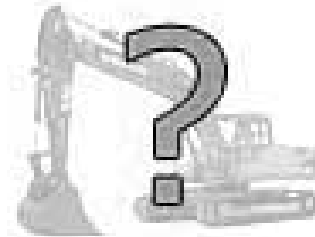


CONSTRUCTION EQUIPMENT

SENNEBOGEN 825M 825.0.2337 - DIESEL ENGINE



Sample No: VCP441411
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP441411	VCP370163	VCP373600	VCP359817
Sample Date	17 Nov 2023	15 Mar 2023	24 Jan 2023	10 Dec 2022
Machine Hours	25558	23691	23361	23143
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
 rluchten@unitedscrap.com
 T:
 F:

OIL CONDITION

Visc @ 100°C	cSt	13.5	13.4	13.5	13.6
Base Number (BN)	mg KOH/g	8.7	9.6	9.5	11.4
Oxidation (PA)	%	63	73	76	87

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 %	%	0.3	0.4	0.4	0.1
Nitration (PA)	%	61	62	59	63
Sulfation (PA)	%	56	60	61	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	6	4
Sodium	ppm	2	3	3	0
Potassium	ppm	0	1	0	2

WEAR METALS

Iron	ppm	6	16	14	21
Copper	ppm	<1	1	1	3
Lead	ppm	0	<1	2	<1
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	2	2	<1	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	71	34	45	42
Nickel	ppm	0	<1	<1	0
Titanium	ppm	<1	0	<1	0
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	<1	<1	0

ADDITIVES

Calcium	ppm	1806	1943	1867	2104
Magnesium	ppm	490	383	525	411
Zinc	ppm	1314	1148	1221	1203
Phosphorus	ppm	1001	932	988	997
Barium	ppm	0	0	<1	<1
Boron	ppm	39	44	62	48

Depot: UNICICIL
Unique No: 10755186
Signed: Wes Davis
Report Date: 27 Nov 2023

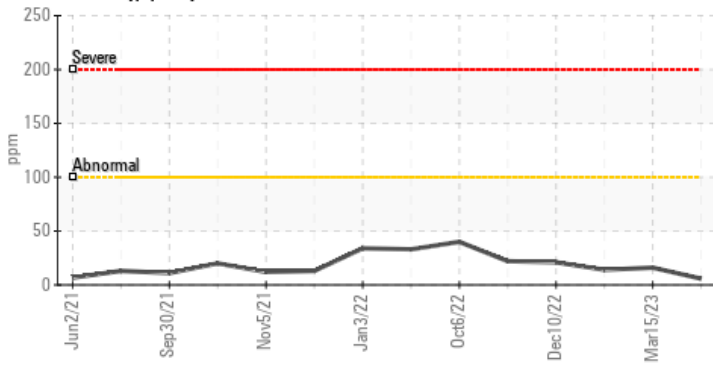


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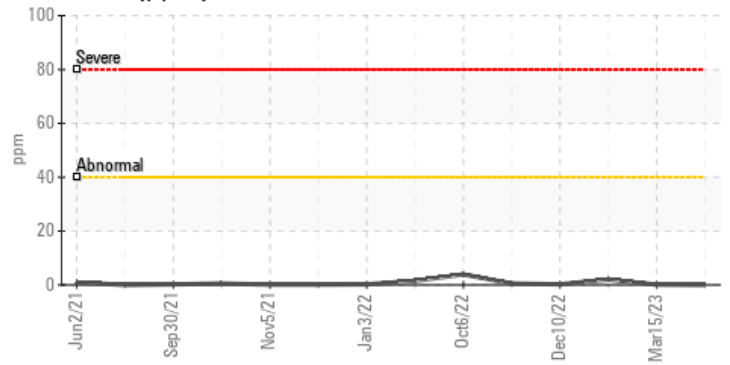


GRAPHS

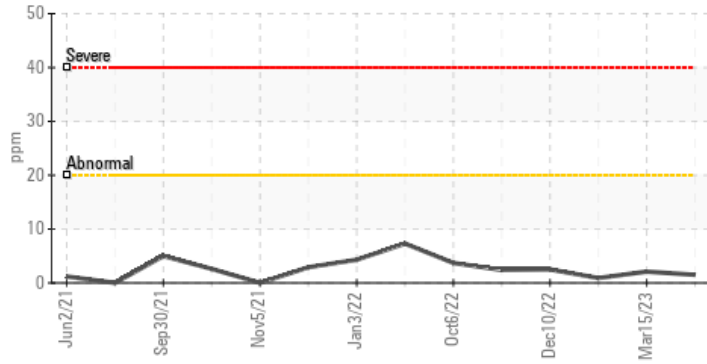
Iron (ppm)



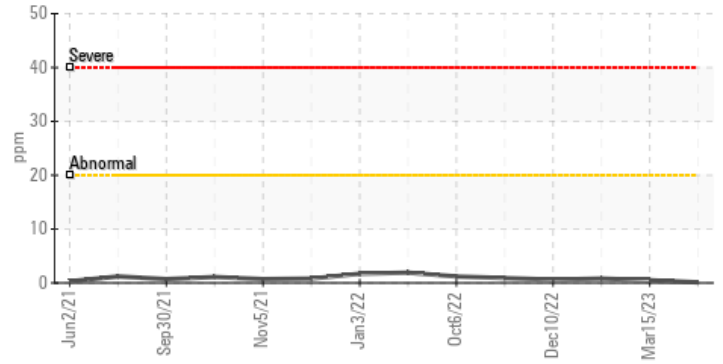
Lead (ppm)



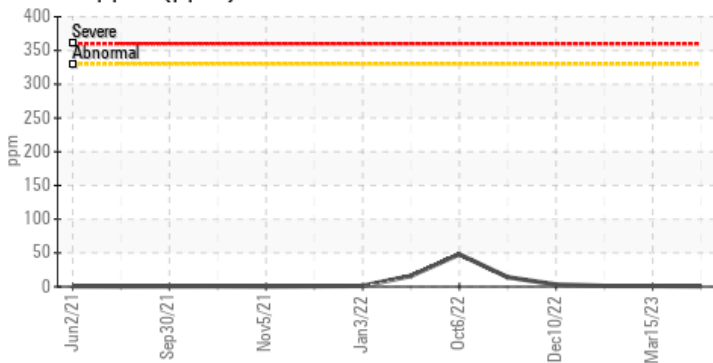
Aluminum (ppm)



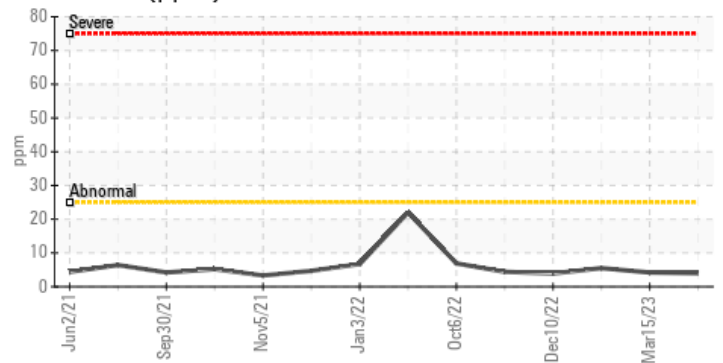
Chromium (ppm)



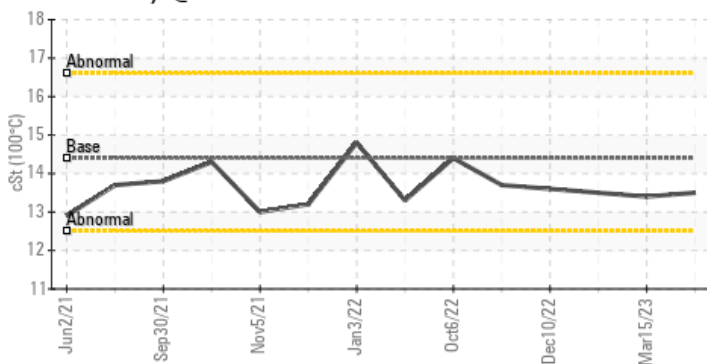
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

