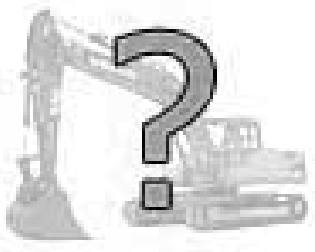
CONSTRUCTION EQUIPMENT
SENNEBOGEN 825M 825.0.2337 - DIESEL ENGINE

Sample No: VCP370164
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No:



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

SAMPLE INFORMATION

Sample Number		**VCP370164**	VCP370163	VCP373600	VCP359817
Sample Date		**23 Jun 2023**	15 Mar 2023	24 Jan 2023	10 Dec 2022
Machine Hours		**24446**	23691	23361	23143
Oil Hours		**0**	0	0	0
Oil Changed		**Changed**	Changed	Changed	Changed
Sample Status		**NORMAL**	NORMAL	NORMAL	NORMAL

OIL CONDITION

Visc @ 100°C	cSt	**13.7**	13.4	13.5	13.6
Base Number (BN)	mg KOH/g	**8.4**	9.6	9.5	11.4
Oxidation (PA)	%	**67**	73	76	87

CONTAMINATION

Water	%	**NEG**	NEG	NEG	NEG
Soot %	%	**0.5**	0.4	0.4	0.1
Nitration (PA)	%	**70**	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	**5**	4	6	4
Sodium	ppm	**<1**	3	3	0
Potassium	ppm	**0**	1	0	2

WEAR METALS

Iron	ppm	**8**	16	14	21
Copper	ppm	**0**	1	1	3
Lead	ppm	**0**	<1	2	<1
Tin	ppm	**0**	<1	<1	<1
Aluminum	ppm	**2**	2	<1	2
Chromium	ppm	**0**	<1	<1	<1
Molybdenum	ppm	**72**	34	45	42
Nickel	ppm	**0**	<1	<1	0
Titanium	ppm	**0**	0	<1	0
Silver	ppm	**0**	0	0	<1
Manganese	ppm	**0**	<1	<1	<1
Vanadium	ppm	**0**	<1	<1	0

ADDITIVES

Calcium	ppm	**2063**	1943	1867	2104
Magnesium	ppm	**237**	383	525	411
Zinc	ppm	**1261**	1148	1221	1203
Phosphorus	ppm	**1062**	932	988	997
Barium	ppm	**0**	0	<1	<1
Boron	ppm	**52**	44	62	48

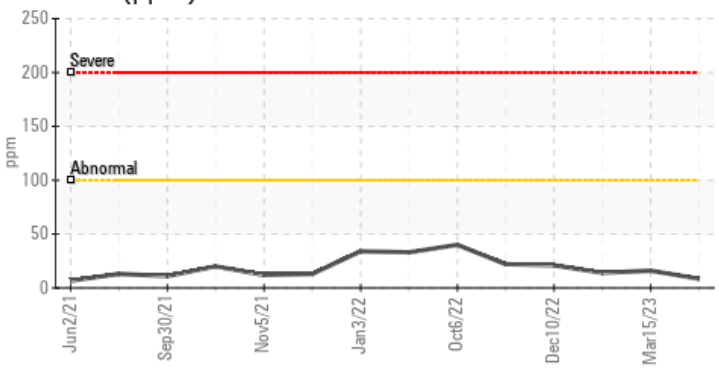
Diagnosis

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.

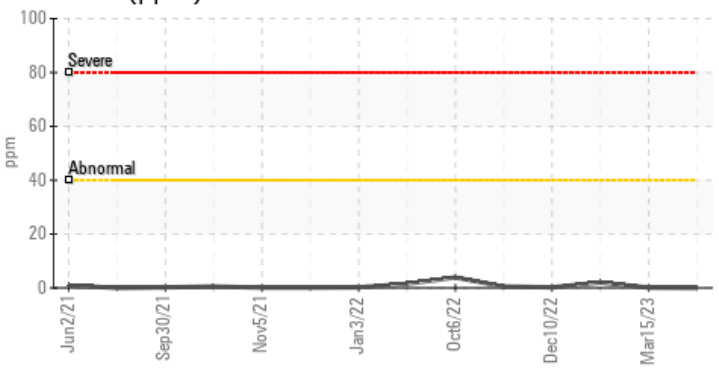
Depot: UNICICIL
Unique No: 10802544
Signed: Wes Davis
Report Date: 22 Dec 2023

GRAPHS

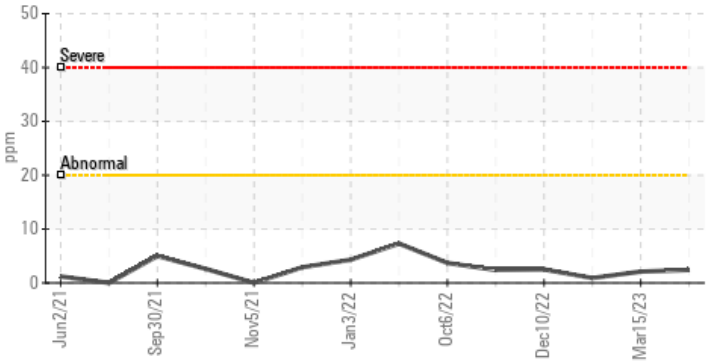
Iron (ppm)



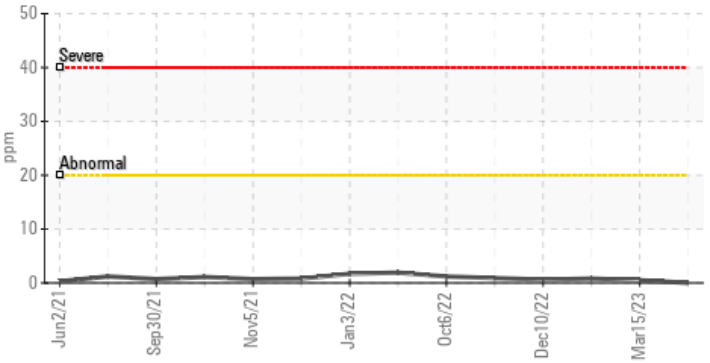
Lead (ppm)



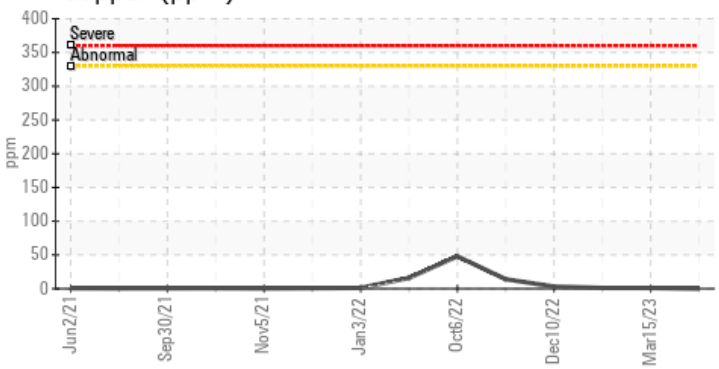
Aluminum (ppm)



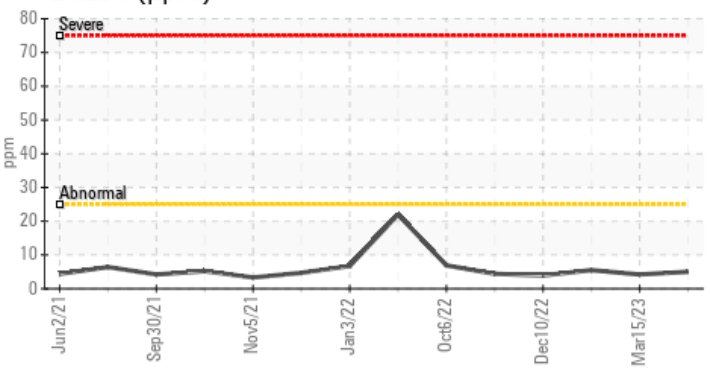
Chromium (ppm)



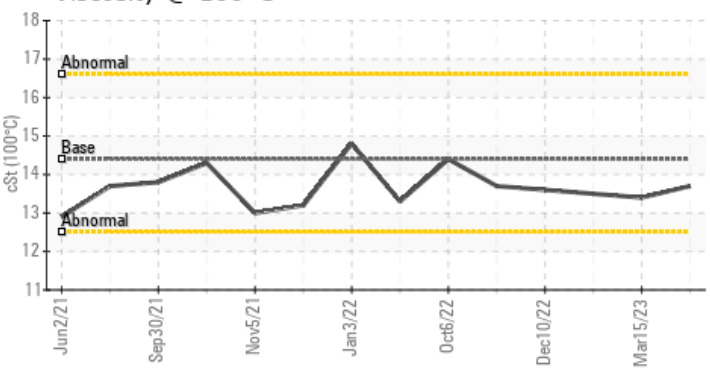
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number