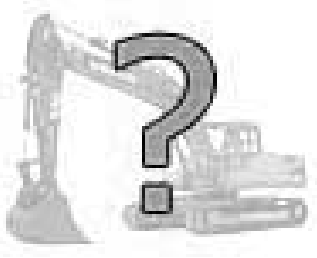
CONSTRUCTION EQUIPMENT

SPM621372 SENNEBOGEN 835ME 835.0.3070 - DIESEL ENGINE

Sample No: VCP423198
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM621372



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SAMPLE INFORMATION

Sample Number		**VCP423198**	VCP411398	VCP399523	VCP402111
Sample Date		**27 Oct 2023**	11 Aug 2023	24 May 2023	20 Mar 2023
Machine Hours		**2632**	2080	1562	1076
Oil Hours		**0**	0	0	0
Oil Changed		**Changed**	Changed	Changed	Changed
Sample Status		**NORMAL**	NORMAL	NORMAL	ATTENTION

OIL CONDITION

Visc @ 100°C	cSt	**13.2**	13.5	13.2	▲ 12.2
Base Number (BN)	mg KOH/g	**8.4**	8.9	8.9	7.9
Oxidation (PA)	%	**71**	67	68	69

CONTAMINATION

Soot %	%	**0.2**	0.2	0.2	0.1
Nitration (PA)	%	**73**	69	68	70
Sulfation (PA)	%	**55**	55	55	50
Glycol	%	**NEG**	NEG	NEG	NEG
Fuel	%	**<1.0**	<1.0	<1.0	▲ 2.9
Silicon	ppm	**3**	3	4	4
Sodium	ppm	**2**	1	<1	0
Potassium	ppm	**14**	15	8	13

WEAR METALS

Iron	ppm	**9**	7	6	12
Copper	ppm	**2**	1	3	3
Lead	ppm	**0**	0	0	0
Tin	ppm	**<1**	<1	0	<1
Aluminum	ppm	**5**	5	5	3
Chromium	ppm	**<1**	<1	0	<1
Molybdenum	ppm	**60**	60	59	64
Nickel	ppm	**0**	0	0	0
Titanium	ppm	**<1**	<1	0	<1
Silver	ppm	**0**	0	0	0
Manganese	ppm	**<1**	<1	0	<1
Vanadium	ppm	**<1**	<1	0	0

ADDITIVES

Calcium	ppm	**1029**	1074	1086	1158
Magnesium	ppm	**1016**	996	947	911
Zinc	ppm	**1315**	1245	1239	1286
Phosphorus	ppm	**991**	1004	986	1028
Barium	ppm	**0**	0	0	2
Boron	ppm	**0**	0	4	4

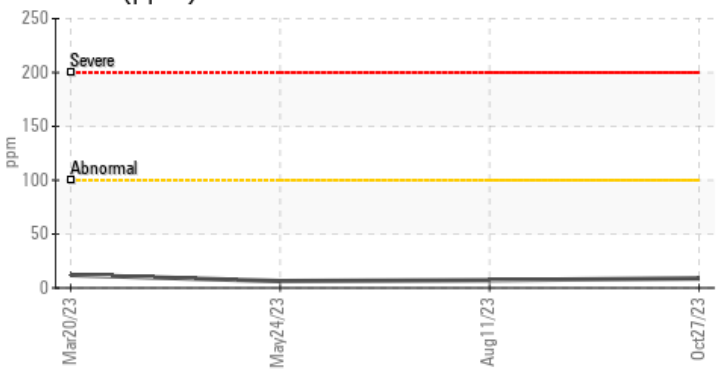
Diagnosis

Resample at the next service interval to monitor.All component wear rates are normal. Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. 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.

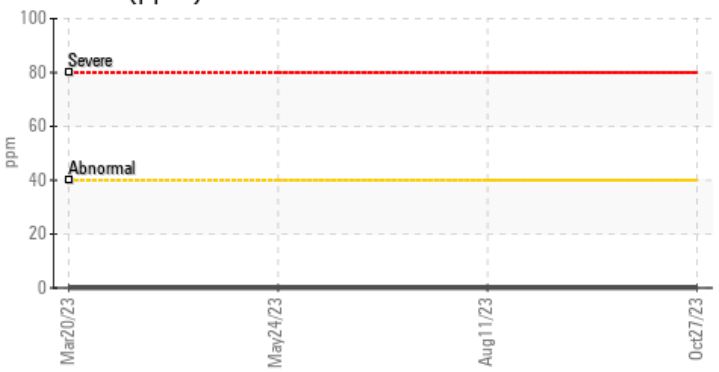
Depot: BELBOU
Unique No: 10726087
Signed: Wes Davis
Report Date: 06 Nov 2023

GRAPHS

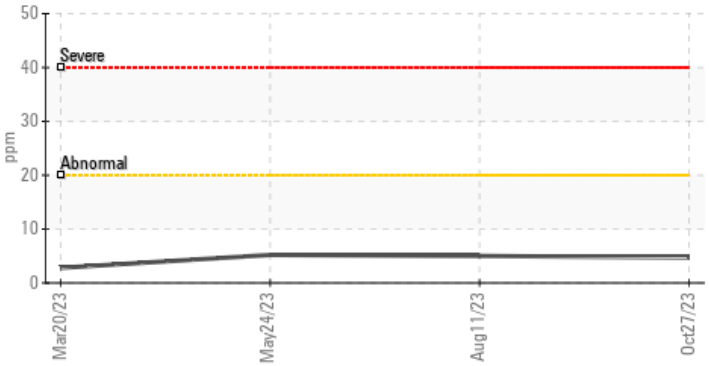
Iron (ppm)



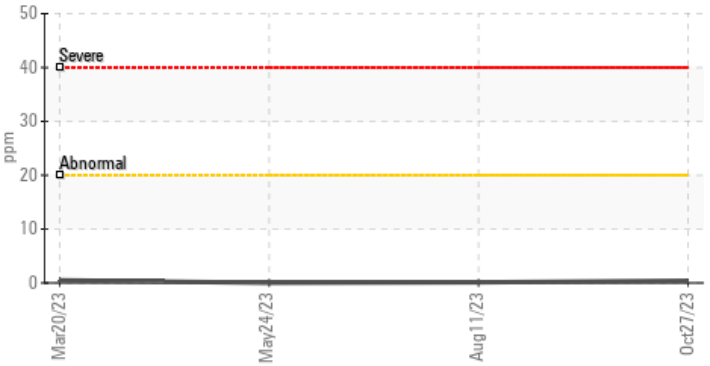
Lead (ppm)



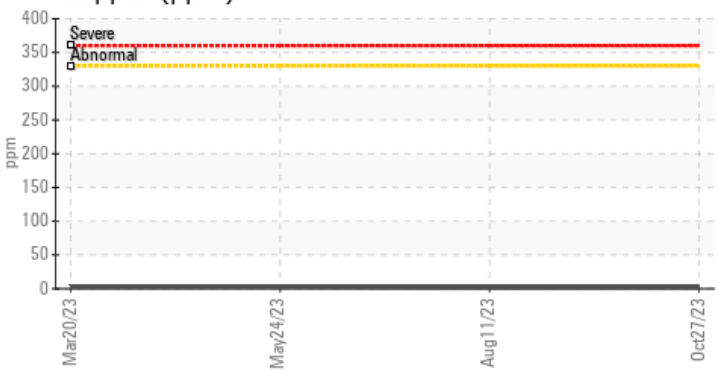
Aluminum (ppm)



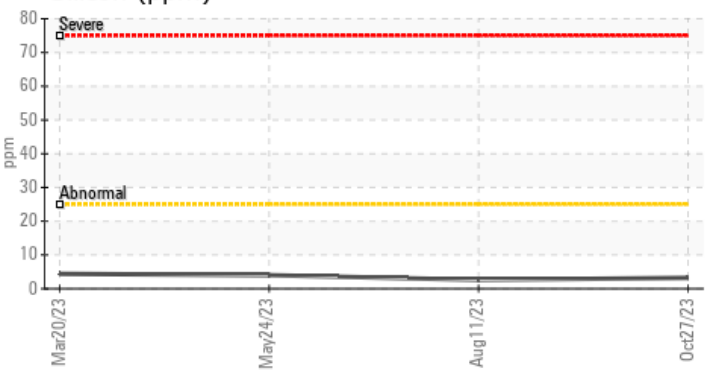
Chromium (ppm)



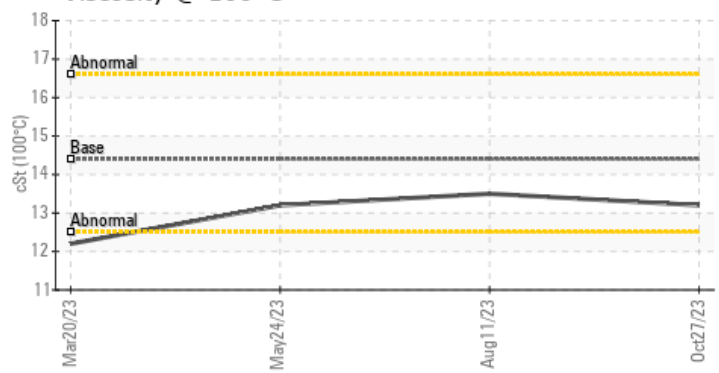
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number