



SENNEBOGEN 830E MS16 - Diesel Engine

Sample No: LH0244799
 Oil Type: DIESEL ENGINE OIL SAE 15W40



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Sample Information

Sample Number	LH0244799	LH0244830	LHMC103769	LHMC122789
Sample Date	29 Jun 2024	16 Mar 2024	07 Nov 2023	02 Aug 2023
Machine Hours	8383	7941	7588	7131
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	ABNORMAL	NORMAL	NORMAL



Oil Condition

Visc @ 100°C	cSt	13.8	13.78	13.4	13.6
Base Number (BN)	mg KOH/g	8.0	6.6	7.4	8.3
Oxidation (PA)	%	73	81	66	57



Contamination

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.3	0.4	0.3	0.2
Nitration (PA)	%	79	90	74	62
Sulfation (PA)	%	59	62	56	51
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	0.9	<1.0	1.9
Silicon	ppm	3	2	3	3
Sodium	ppm	2	4	1	1
Potassium	ppm	0	46	<1	2



Wear Metals

Iron	ppm	13	22	9	7
Copper	ppm	<1	<1	0	<1
Lead	ppm	0	0	0	0
Tin	ppm	0	0	<1	0
Aluminum	ppm	<1	3	1	<1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	61	59	55	58
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



Additives

Calcium	ppm	1216	1198	1091	1257
Magnesium	ppm	1005	984	846	967
Zinc	ppm	1343	1285	1210	1343
Phosphorus	ppm	1095	949	907	1037
Barium	ppm	0	0	0	0
Boron	ppm	0	7	9	9

Diagnosis

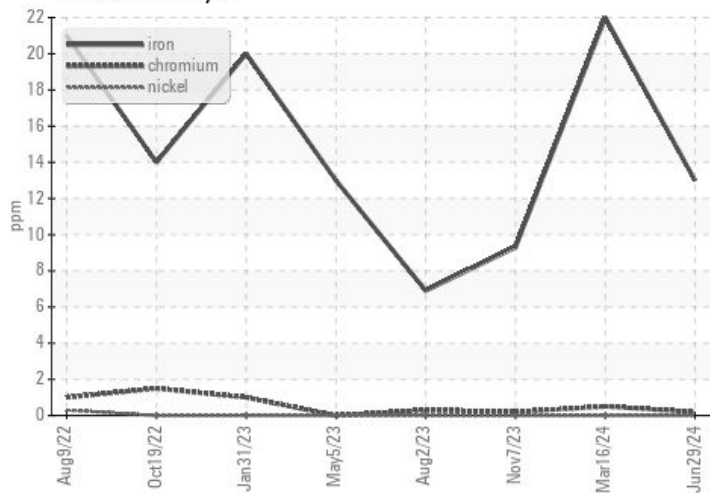
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Depot: OSCLAF
 Unique No: 11123124
 Signed: Wes Davis
 Report Date: 12 Jul 2024

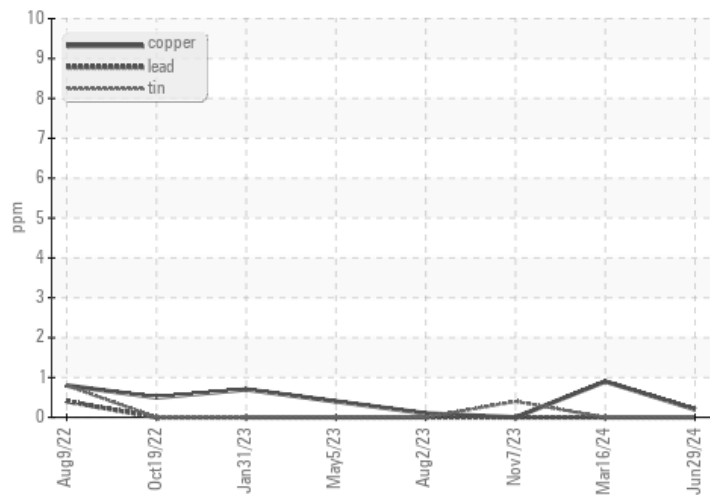


Graphs

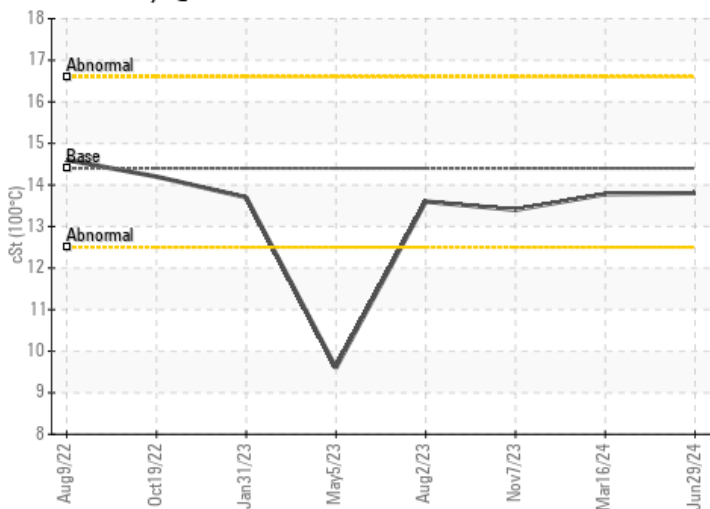
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



Base Number

