WEAR CONTAMINATION FLUID CONDITION

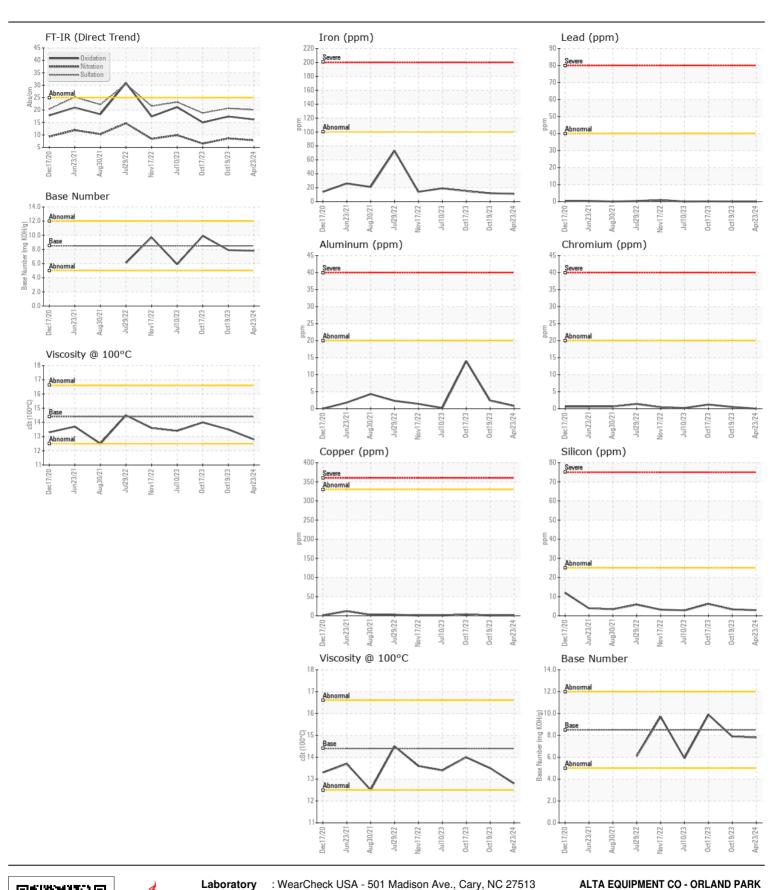
NORMAL NORMAL NORMAL

[SPM702435 AMG RES]

SENNEBOGEN 830ME 830.0.2822

Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		VCP446187	-	VCP42323
	Sample Date		Client Info		23 Apr 2024	19 Oct 2023	17 Oct 202
	Machine Age	hrs	Client Info		9464	9029	1492
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	11	12	15
WEAT	Chromium	ppm	ASTM D5185m		0	<1	1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	<1	0
	Titanium	ppm	ASTM D5185m	24	0	<1	<1
	Silver	ppm	ASTM D5185m	~3	0	0	<1
	Aluminum	ppm	ASTM D5185m		<1	2	14
	Lead	ppm	ASTM D5185m		0	0	<1
	Copper	ppm	ASTM D5185m		<1	<1	4
	Tin	ppm	ASTM D5185m		0	<1	<1
	Vanadium	ppm	ASTM D5185m	7.0	<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m		3	3	6
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		5	2	2
	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol	0/	WC Method	0	NEG	NEG	NEG
	Soot % Nitration	%	*ASTM D7844 *ASTM D7624		0.2 7.8	0.2 8.6	0.2 6.5
	Sulfation	Abs/cm Abs/.1mm	*ASTM D7624	>20	20.1	20.7	18.8
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3	4	1
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		0	<1	7
	Barium	ppm	ASTM D5185m		0	0	12
	Molybdenum	ppm	ASTM D5185m	100	59	56	55
	Manganese	ppm	ASTM D5185m		0	0	<1
	Magnesium	ppm	ASTM D5185m		1026	926	835
	Calcium	ppm	ASTM D5185m	3000	1149	996	1019
	Phosphorus	ppm	ASTM D5185m		1001	953	843
	Zinc	ppm	ASTM D5185m		1185	1185	1137
	Sulfur	ppm	ASTM D5185m	4250	3184	3077	2942
		Alas / d	*AOTAL DELL'	0.5	400	474	4 = 0
	Oxidation Base Number (BN)	Abs/.1mm	*ASTM D7414		16.2 7.8	17.4 7.9	15.0 9.9







Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : VCP446187 Lab Number : 06178287

Unique Number : 11029613

Tested Test Package : MOB 1 (Additional Tests: TBN)

Received : 14 May 2024 Diagnosed

: 14 May 2024

: 14 May 2024 - Wes Davis

5000 INDUSTRIAL HWY GARY, IN US 46406

Contact: DAVE ENG DAVE.ENG@ALTG.COM T: (312)350-2560

Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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