WEAR CONTAMINATION **FLUID CONDITION**

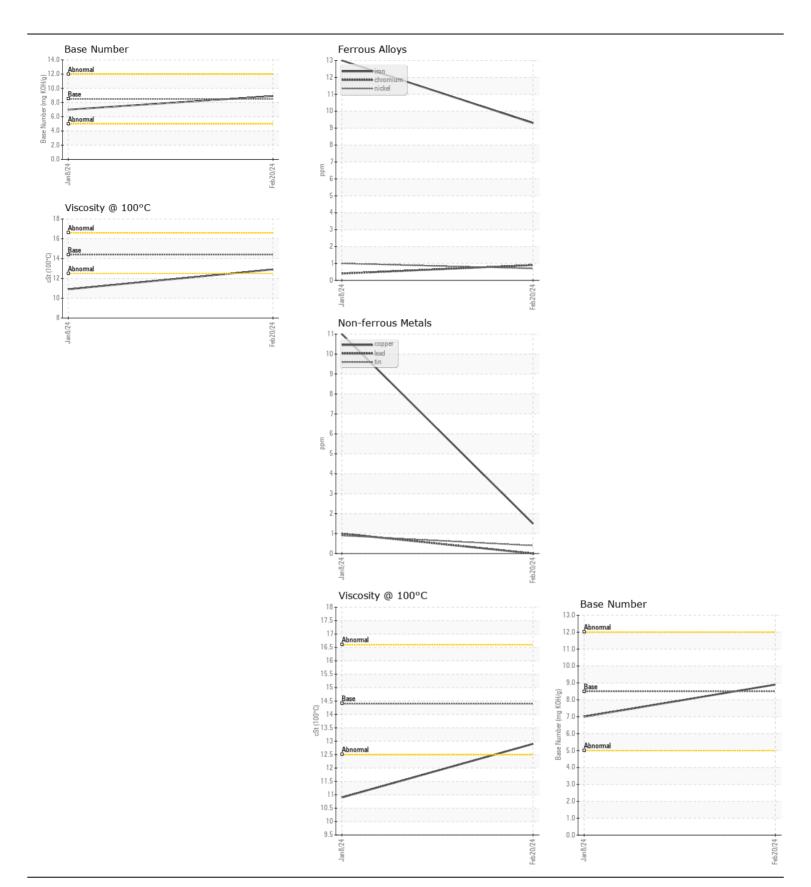
NORMAL NORMAL NORMAL

SENNEBOGEN 830M 830.0.3509

Component Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		JR0199695	JR0147867	
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Date		Client Info		20 Feb 2024	08 Jan 2024	
	Machine Age	hrs	Client Info		488	311	
	Oil Age	hrs	Client Info		0	311	
	Filter Age	hrs	Client Info		0	311	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	ATTENTION	
WEAD	lua.a		ACTM DE10E	100		40	
WEAR	Iron	ppm	ASTM D5185m		9	13	
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m		<1	<1	
	Nickel	ppm	ASTM D5185m	>4	<1	1	
	Titanium Silver	ppm	ASTM D5185m	. 0	<1	<1	
	Aluminum	ppm	ASTM D5185m ASTM D5185m		0 4	0 3	
	Lead	ppm	ASTM D5185m		0	1	
	Copper	ppm	ASTM D5185m		2	11	
	Tin	ppm	ASTM D5185m		<1	<1	
	Vanadium	ppm	ASTM D5185m	710	<1	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	10	24	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	3	0	
	Fuel		WC Method	>5	<1.0	0.8	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844		0.1	0.1	
	Nitration	Abs/cm	*ASTM D7624	>20	6.8	7.6	
	Sulfation	Abs/.1mm	*ASTM D7415		20.0	18.2	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE NONE	NONE NONE	
	Sand/Dirt Appearance	scalar scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water		*Visual	>0.2	NEG	NEG	
	Lindollica Water		• • • • • • • • • • • • • • • • • • •			1420	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>158	<1	<1	
The DNI was distincted that they is a vitable all clinits were distincted in the	Boron	ppm	ASTM D5185m	250	248	85	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m	10	2	0	
	Molybdenum	ppm	ASTM D5185m	100	233	74	
	Manganese	ppm	ASTM D5185m		1	3	
	Magnesium	ppm	ASTM D5185m		669	162	
	Calcium	ppm	ASTM D5185m	3000	1220	1901	
	Phosphorus	ppm	ASTM D5185m		766	960	
	Zinc	ppm	ASTM D5185m		954	1189	
	Sulfur	ppm	ASTM D5185m		2880	3659	
	Oxidation	Abs/.1mm	*ASTM D7414		14.6	14.2	
	Base Number (BN) Visc @ 100°C	0 0	ASTM D2896 ASTM D445		8.9	7.0 1 0.9	
	visc @ 100°C	cSt	MOTIVI D445	14.4	12.9	10.9	

Contact/Location: DAVID ZIEG - JAMASH







Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06101417

Unique Number: 10899647

: JR0199695 Received **Tested**

: 27 Feb 2024 Diagnosed Test Package : CONST (Additional Tests: TBN)

: 28 Feb 2024 : 28 Feb 2024 - Wes Davis

11047 LEADBETTER RD ASHLAND, VA US 23005 Contact: DAVID ZIEG

dzieg@jamesriverequipment.com T: (804)798-6001

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)

JRE - ASHLAND

F: (804)798-0292