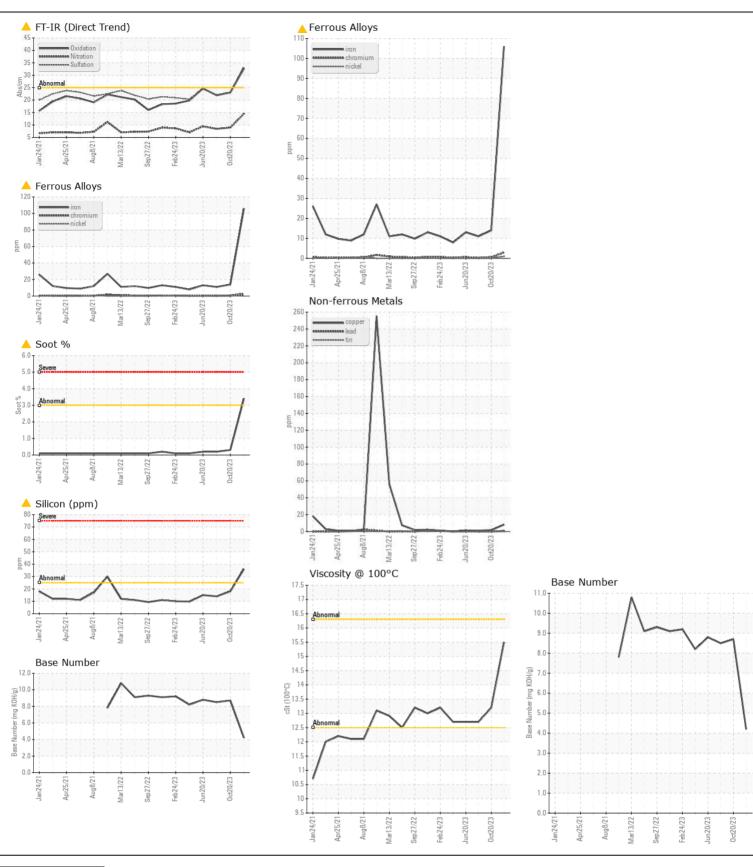
**WEAR CONTAMINATION FLUID CONDITION**  **ABNORMAL ABNORMAL NORMAL** 

**Ascendum Machinery** 

## **SENNEBOGEN 821E RTH5 (S/N 82102699)**

Diesel Engine

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ASC0007115	ASC0005276	VCP0006712
Sample Date		Client Info		10 Apr 2024	20 Oct 2023	09 Aug 2023
Machine Age	hrs	Client Info		5663	5663	5133
Oil Age	hrs	Client Info		5663	530	489
Filter Age	hrs	Client Info		0	0	489
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>100	<b>1</b> 06	14	11
Chromium	ppm	ASTM D5185m	>20	3	<1	<1
Nickel	ppm	ASTM D5185m	>4	1	0	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	5	1	1
Lead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm	ASTM D5185m	>330	8	2	1
Tin	ppm	ASTM D5185m	>15	1	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	nnm	ASTM D5185m	>25	<u>^</u> 36	18	14
	• • • • • • • • • • • • • • • • • • • •					<1
						<1.0
	/0					NEG
			7 U.L			NEG
-	%		>3			0.2
						8.4
						22.1
						NONE
						NONE
						NONE
						NORM
Odor	scalar	*Visual			NORML	NORM
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Sodium	nnm	ASTM D5185m		າ	2	2
						27
						0
						44
•						<1
_						508
Calcium	ppm	ASTM D5185m		2246	1799	1858
	ppm	ASTM D5185m		1160	950	927
Phosphorie	PPIII	, 10 TW DO TOOTH			000	
Phosphorus Zinc	nnm	ASTM D5185m		1497	1204	1225
Zinc	ppm	ASTM D5185m		1427 3361	1204 2817	1225 3420
Zinc Sulfur	ppm	ASTM D5185m	>25	3361	2817	3420
Zinc	ppm Abs/.1mm	ASTM D5185m *ASTM D7414	>25			
	Sample Date Machine Age Oil Age Filter Age Oil Changed Filter Changed Sample Status  Iron Chromium Nickel Titanium Silver Aluminum Lead Copper Tin Vanadium White Metal Yellow Metal  Silicon Potassium Fuel Water Glycol Soot % Nitration Sulfation Silt Debris Sand/Dirt Appearance Odor Emulsified Water  Sodium Boron Barium Molybdenum Manganese Magnesium	Sample Date  Machine Age hrs Oil Age hrs Filter Age hrs Oil Changed Filter Changed Sample Status  Iron ppm Chromium ppm Nickel ppm Titanium ppm Aluminum ppm Lead ppm Copper ppm Tin ppm Vanadium ppm White Metal scalar Yellow Metal scalar Yellow Metal scalar Silicon ppm Fuel % Water Glycol Soot % % Nitration Abs/cm Sulfation Abs/.mm Silt scalar Debris scalar Sand/Dirt scalar Appearance scalar Odor scalar Emulsified Water scalar Sodium ppm Boron ppm Barium ppm Manganese ppm Magnesium ppm Manganese ppm Magnesium ppm Magnesium ppm Maganese ppm Magnesium ppm Maganese ppm Magnesium ppm	Sample Date Machine Age Oil Age hrs Client Info ASTM D5185m ASTM D	Sample Date Machine Age Mrs Client Info Oil Age Mrs Client Info Oil Age Mrs Client Info Oil Changed Filter Age Mrs Client Info Oil Changed Filter Changed Sample Status  Iron Chromium Der Mach Delises Sample Status  Iron Delise Sample Status  Client Info	Sample Date         Client Info         10 Apr 2024           Machine Age         hrs         Client Info         5663           Oil Age         hrs         Client Info         5663           Filter Age         hrs         Client Info         0           Oil Changed         Client Info         Changed           Filter Changed         Client Info         Changed           Sample Status         ABNORMAL           Iron         ppm         ASTM D5185m         >100           Chromium         ppm         ASTM D5185m         >20         3           Nickel         ppm         ASTM D5185m         >4         1           Titanium         ppm         ASTM D5185m         >3         0           Aluminum         ppm         ASTM D5185m         >3         0           Aluminum         ppm         ASTM D5185m         >4         1           Copper         ppm         ASTM D5185m         >4         1           Vanadium         ppm         ASTM D5185m         >4         1           Vanadium         ppm         ASTM D5185m         >15         1           Vanadium         ppm         ASTM D5185m         >25         1	Sample Date         Client Info         10 Apr 2024         20 Oct 2023           Machine Age         hrs         Client Info         5663         5663           Oil Age         hrs         Client Info         5663         530           Filter Age         hrs         Client Info         0         0           Oil Changed         Client Info         Changed         Changed           Filter Changed         Client Info         Changed         Changed           Sample Status         ASTM D5185m         -100         106         14           Iron         ppm         ASTM D5185m         >20         3         <1





Certificate L2367

Laboratory

Sample No. Lab Number : 06148385

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : ASC0007115

Unique Number: 10978463

Received : 15 Apr 2024 **Tested** Diagnosed

: 16 Apr 2024

: 17 Apr 2024 - Sean Felton Test Package : CONST (Additional Tests: FuelDilution, TBN)

7700 KENMONT RD GREENSBORO, NC US 27409 Contact: MIKE LAUGHEAD

mlaughead@hilcotransport.com

**HILCO TRANSPORT** 

T: (336)273-9441

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.

F: (336)273-9701 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)