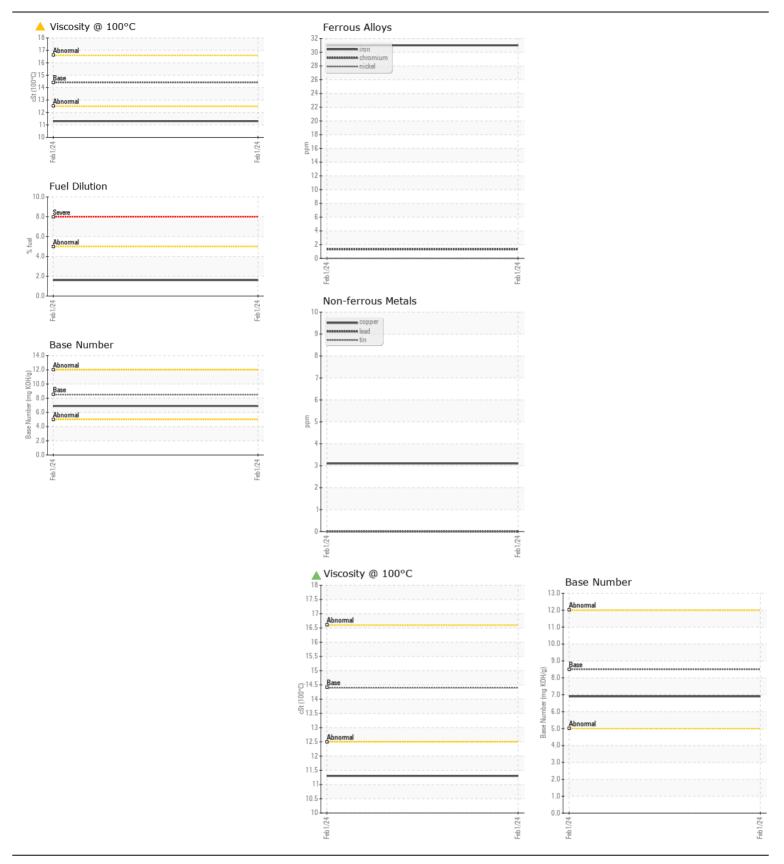


Machine Id **RBI 1310** Component **Diesel Engine** Fluid **DIESEL ENGINE OIL SAE 15W40 (--- QTS)**

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		WC0882724		
	Sample Date	la una	Client Info		01 Feb 2024		
	Machine Age	hrs	Client Info		1800		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ATTENTION		
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>100	31		
	Chromium	ppm	ASTM D5185m		1		
	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m	>3	0		
	Aluminum	ppm	ASTM D5185m		17		
	Lead	ppm	ASTM D5185m		0		
	Copper	ppm	ASTM D5185m		3		
	Tin	ppm	ASTM D5185m		0		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	8		
Fuel content negligible. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	34		
	Fuel	%	ASTM D3524	>5	1.6		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.4		
	Nitration	Abs/cm	*ASTM D7624	>20	7.7		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	16.8		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.2	NEG		
FLUID CONDITION	Sodium	nnm	ASTM D5185m	<158	2		
	Boron	ppm ppm	ASTM D5185m		50		
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		69		
	Manganese	ppm	ASTM D5185m	100	<1		
	Magnesium	ppm	ASTM D5185m	450	281		
	Calcium	ppm	ASTM D5185m		1853		
	Phosphorus	ppm	ASTM D5185m		831		
	Zinc	ppm	ASTM D5185m		1051		
	Sulfur	ppm	ASTM D5185m		3057		
	Oxidation	Abs/.1mm	*ASTM D7414		10.6		
	Base Number (BN)				6.9		
		- Ot		4.4.4			

Visc @ 100°C cSt ASTM D445 14.4

11.3



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 SULLIVAN EASTERN INC Sample No. : WC0882724 Received 2860 C SLATER RD : 12 Feb 2024 ġ7 Lab Number : 06085591 : 14 Feb 2024 MORRISVILLE, NC Tested Unique Number : 10873036 : 14 Feb 2024 - Jonathan Hester US 27560 Diagnosed Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN) Contact: SCOTT SULLIVAN Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. ssullivan@sullivaneastern.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (919)484-8993 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (919)484-2136

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