WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL MARGINAL

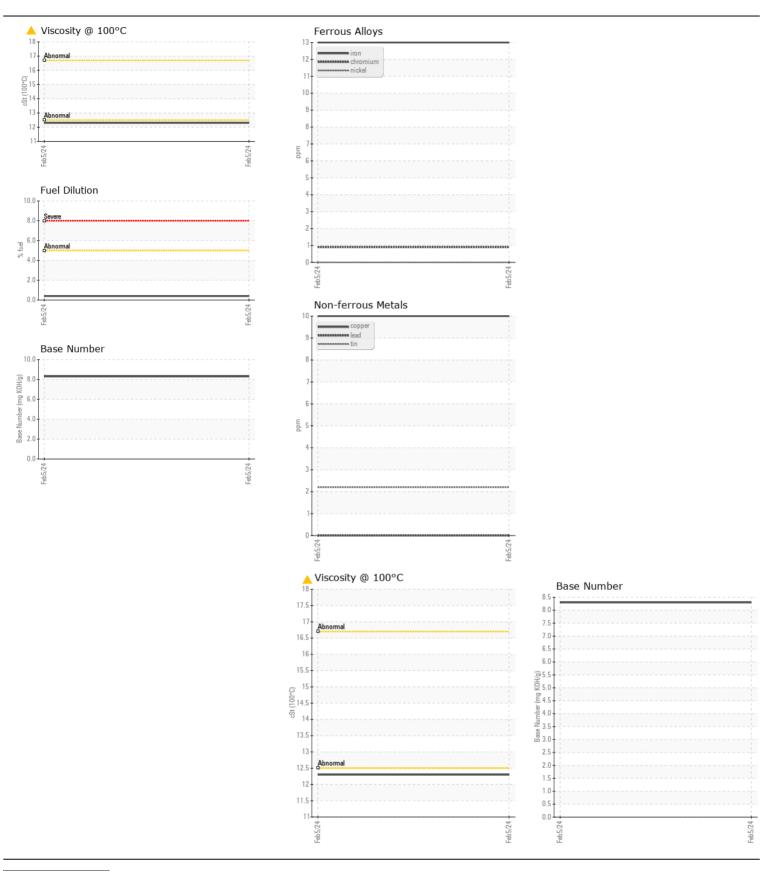
Machine Id

CASE STEIGER 500 RL587

Component Diesel Engine

DA LUBRICANTS RELIANT PREMIUM (--- QTS)

DA LUBRICANTS RELIANT PR	EMIUM (((STC					
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TEOOMINE REPAIRED	Sample Number		Client Info		DE0000693		
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Date		Client Info		05 Feb 2024		
	Machine Age	hrs	Client Info		3495		
	Oil Age	hrs	Client Info		300		
	Filter Age	hrs	Client Info		300		
	Oil Changed	0	Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				MARGINAL		
WEAR	Iron	ppm	ASTM D5185m	>100	13		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1		
	Nickel	ppm	ASTM D5185m	>4	0		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m	>3	0		
	Aluminum	ppm	ASTM D5185m	>20	1		
	Lead	ppm	ASTM D5185m	>40	0		
	Copper	ppm	ASTM D5185m	>330	10		
	Tin	ppm	ASTM D5185m	>15	2		
	Vanadium	ppm	ASTM D5185m		1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m		3		
Fuel content negligible. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		0		
	Fuel	%	ASTM D3524		0.4		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method	-	NEG		
	Soot %	%	*ASTM D7844		0.1		
	Nitration	Abs/cm	*ASTM D7624	>20	7.6		
	Sulfation	Abs/.1mm	*ASTM D7415		18.8		
	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	ppm	ASTM D5185m		4		
	Boron	ppm	ASTM D5185m		2		
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		64		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		993		
	Calcium	ppm	ASTM D5185m		1181		
	Phosphorus	ppm	ASTM D5185m		1083		
	Zinc	ppm	ASTM D5185m		1319		
	Sulfur	ppm	ASTM D5185m		3360		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.8		
	Base Number (BN)		ASTM D2896		8.3		
	Visc @ 100°C	cSt	ASTM D445		▲ 12.3		
	0 .00 0						







Laboratory

Sample No.

Lab Number : 06084223 Unique Number: 10871668

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : DE0000693

Received **Tested** Diagnosed Test Package: FLEET (Additional Tests: FuelDilution, PercentFuel)

: 13 Feb 2024

: 13 Feb 2024 - Jonathan Hester

: 08 Feb 2024

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

US 14591 Contact: M. MANCUSO mmancuso@rljeffres.com T: (585)739-3265

R.L. JEFFRES & SONS

510 WYOMING RD

WYOMING, NY

* - 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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