

WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL NORMAL

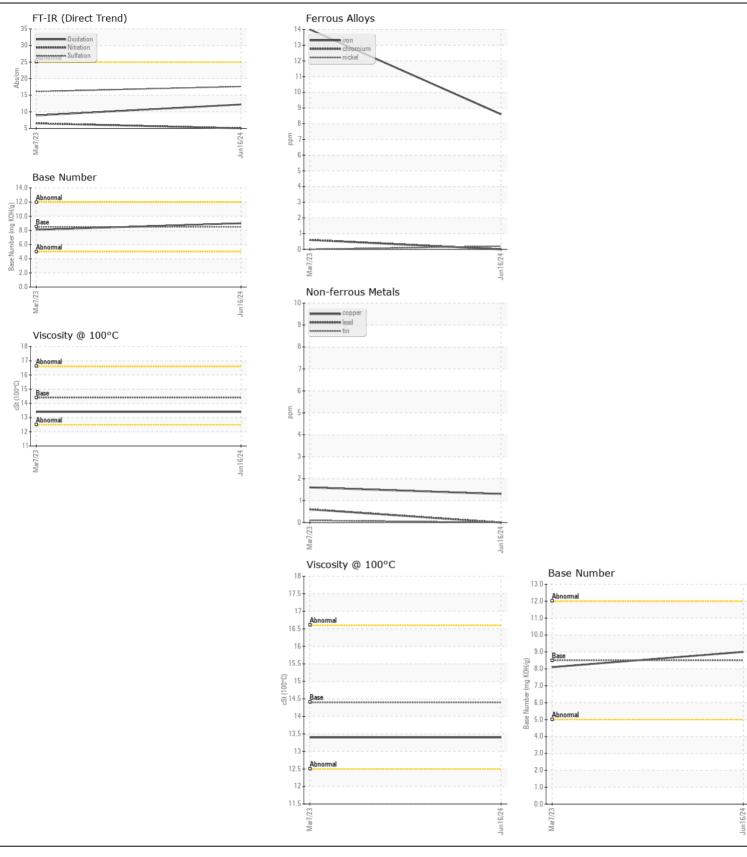
Machine Id

CR-143 E-2411

Diesel Engine

DIESEL ENGINE OIL SAE 40 (--- QTS)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm. Please specify the component make and model with your next sample.	Sample Number		Client Info		WC0941908	WC0571082	
	Sample Date		Client Info		16 Jun 2024	07 Mar 2023	
	Machine Age	hrs	Client Info		0	0	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		N/A	N/A	
	Filter Changed		Client Info		N/A	N/A	
	Sample Status				NORMAL	NORMAL	
WEAR All component wear rates are normal.	Iron	nnm	ASTM D5185m	>100	9	14	
	Chromium	ppm	ASTM D5185m		0	<1	
	Nickel	ppm	ASTM D5185m		<1	0	
	Titanium	ppm	ASTM D5185m	>4	0	0	
	Silver		ASTM D5185m	. 3	0	0	
	Aluminum	ppm	ASTM D5185m		4	8	
		ppm	ASTM D5185m		0		
	Lead Copper	ppm	ASTM D5185m		1	<1 2	
	Tin	ppm	ASTM D5185m		0	<1	
	Vanadium	ppm	ASTM D5185m	>10	0	<1	
	White Metal	ppm scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal				NONE		
·	reliow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	4	4	
	Potassium	ppm	ASTM D5185m	>20	6	10	
There is no indication of any contamination in the oil.	Fuel		WC Method	>5	<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.2	0.3	
	Nitration	Abs/cm	*ASTM D7624	>20	5.0	6.5	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	17.6	16.1	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	nnm	ASTM D5185m	>216	2	1	
LOID SONDITION	Boron	ppm	ASTM D5185m		86	13	
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		0	0	
	Molybdenum	ppm	ASTM D5185m		39	4	
	Manganese	ppm	ASTM D5185m		<1	<1	
	Magnesium	ppm	ASTM D5185m	450	275	29	
	Calcium	ppm		3000	1721	2185	
	Phosphorus	ppm	ASTM D5185m		924	860	
	Zinc	ppm		1350	1079	1045	
	Sulfur	ppm	ASTM D5185m		3599	3567	
	Oxidation	Abs/.1mm	*ASTM D7414		12.2	8.9	
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	9.0	8.1	







Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06211280

: WC0941908 Unique Number : 11084144

Received : 17 Jun 2024 **Tested**

: 18 Jun 2024 Diagnosed : 18 Jun 2024 - Wes Davis

SIDDONS-MARTIN EMERGENCY GROUP 4401 REX RD

FRIENDSWOOD, TX US 77546

Test Package : CONST (Additional Tests: TBN) Contact: Natalie Perrone Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. nperrone@siddons-martin.com T:

* - 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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