

Machine Id LIVERPOOL E1503 Componer **Diesel Engine** DIESEL ENGINE OIL SAE 40 (--- QTS)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0941891	WC0792382	
Resample at the next service interval to monitor. Please specify the	Sample Date		Client Info		28 May 2024	18 May 2023	
component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.	Machine Age	mls	Client Info		0	0	
brand, type, and viscosity of the off off your next sample.	Oil Age	mls	Client Info		0	0	
	Filter Age	mls	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	lran		ASTM D5185m	. 100	10	00	
WEAN	Iron	ppm			10	26	
All component wear rates are normal.	Chromium Nickel	ppm	ASTM D5185m		0	<1	
		ppm	ASTM D5185m	>4	<1	1	
	Titanium Silver	ppm	ASTM D5185m	. 0	0		
		ppm	ASTM D5185m		<1	0	
	Aluminum	ppm	ASTM D5185m		3		
	Lead	ppm	ASTM D5185m		<1 2	2	
	Copper Tin	ppm	ASTM D5185m ASTM D5185m			1	
	Vanadium	ppm	ASTM D5185m	>15	<1 0		
	White Metal	ppm scalar		NONE	-	<1	
			*Visual	NONE NONE	NONE NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE		NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	4	6	
	Potassium	ppm	ASTM D5185m	>20	6	4	
There is no indication of any contamination in the oil.	Fuel		WC Method		<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.3	0.5	
	Nitration	Abs/cm	*ASTM D7624	>20	5.4	7.0	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.9	19.1	
	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	nom	ASTM D5185m	> 216	2	2	
FLOID CONDITION	Boron	ppm	ASTM D5185m		151	68	
The BN result indicates that there is suitable alkalinity remaining in the	Barium	ppm	ASTM D5185m		0	0	
oil. The condition of the oil is suitable for further service.	Molybdenum	ppm ppm	ASTM D5185m		57	31	
	Manganese	ppm	ASTM D5185m	100	-37 <1	1	
	Magnesium	ppm	ASTM D5185m	450	374	211	
	Calcium	ppm	ASTM D5185m		1839	2096	
	Phosphorus	ppm	ASTM D5185m		1053	1018	
	Zinc	ppm	ASTM D5185m		1212	1236	
	2110	PPIII		1050	1212	1200	

Base Number (BN) mg KOH/g ASTM D2896 8.5

ppm ASTM D5185m 4250

ASTM D445 14.4

Abs/.1mm *ASTM D7414 >25

Sulfur

Oxidation

Visc @ 100°C cSt

Report Id: SIDFRI [WUSCAR] 06193712 (Generated: 05/30/2024 16:07:19) Rev: 1

4410

13.1

8.4

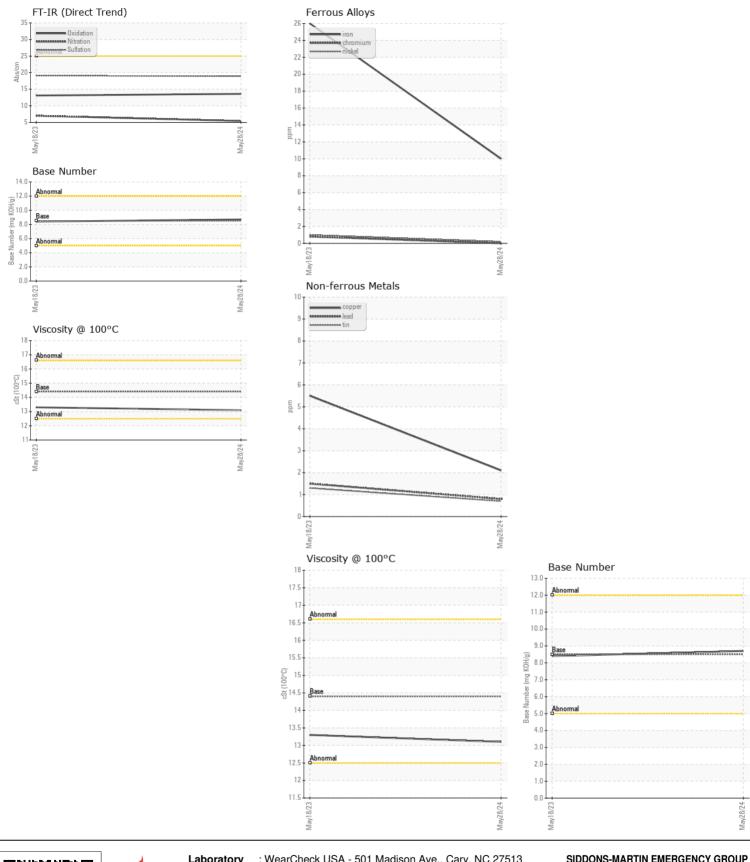
13.3

3860

13.6

8.7

13.1



SIDDONS-MARTIN EMERGENCY GROUP Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : WC0941891 Received 4401 REX RD : 29 May 2024 Lab Number : 06193712 Tested : 30 May 2024 FRIENDSWOOD, TX Unique Number : 11050464 Diagnosed : 30 May 2024 - Wes Davis US 77546 Test Package : CONST (Additional Tests: TBN) Contact: M. LEWIS Certificate L2367 mlewis@siddons-martin.com 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. T: F: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)