WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL NORMAL

Machine Id

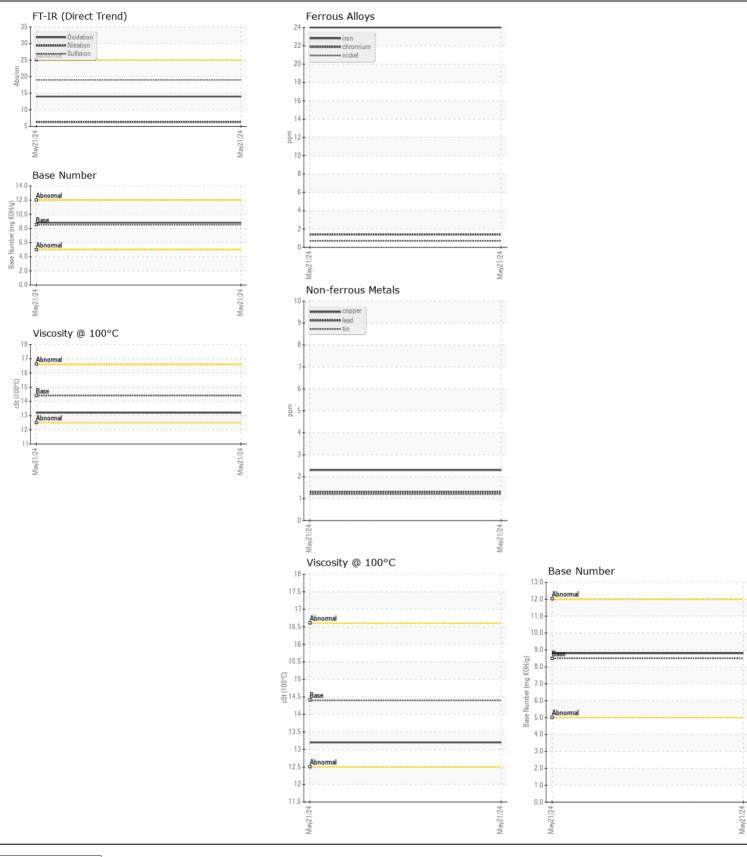
MANVEL T-121

Component
Diesel Engine

DIESEL ENGINE OIL SAE 40 (--- QTS)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0941929		
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Date		Client Info		21 May 2024		
	Machine Age	mls	Client Info		0		
	Oil Age	mls	Client Info		0		
	Filter Age	mls	Client Info		0		
	Oil Changed		Client Info		N/A		
	Filter Changed		Client Info		N/A		
	Sample Status				NORMAL		
WEAR	Iron	ppm	ASTM D5185m	>100	24		
Moderate concentration of visible metal present. All component wear rates are normal.	Chromium	ppm	ASTM D5185m		1		
	Nickel	ppm	ASTM D5185m		- <1		
	Titanium	ppm	ASTM D5185m	7	<1		
	Silver	ppm	ASTM D5185m	^3	<1		
	Aluminum	ppm	ASTM D5185m		9		
	Lead	ppm	ASTM D5185m		1		
	Copper	ppm	ASTM D5185m		2		
	Tin	ppm	ASTM D5185m		1		
	Vanadium	ppm	ASTM D5185m	710	<1		
	White Metal	scalar	*Visual	NONE	MODER		
	Yellow Metal	scalar	*Visual	NONE	NONE		
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CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	8		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	11		
	Fuel		WC Method	>5	<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.3		
	Nitration	Abs/cm	*ASTM D7624	>20	6.3		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.0		
	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	>216	3		
	Boron	ppm	ASTM D5185m		209		
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		
	Molybdenum	ppm	ASTM D5185m	100	76		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m	450	493		
	Calcium	ppm	ASTM D5185m	3000	2427		
	Phosphorus	ppm	ASTM D5185m	1150	1444		
	Zinc	ppm	ASTM D5185m	1350	1605		
	Sulfur	ppm	ASTM D5185m	4250	5392		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.0		
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.8		

Contact/Location: DD LOUHY - SIDFRI







Certificate L2367

Laboratory Sample No.

Lab Number : 06187332

Unique Number : 11044084

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0941929 Received : 22 May 2024 **Tested** : 23 May 2024

Diagnosed : 24 May 2024 - Sean Felton Test Package : CONST (Additional Tests: TBN)

SIDDONS-MARTIN EMERGENCY GROUP 4401 REX RD FRIENDSWOOD, TX

US 77546 Contact: DD LOUHY

DDLOUHY@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. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

T: F: