**WEAR CONTAMINATION FLUID CONDITION**  **NORMAL NORMAL NORMAL** 

5C07

## GREAT DANE REEFER RTR6738 - REEFER (S/N 1GR1A0632PB512317)

Component Diesel Engine

DIESEL ENGINE OIL SAF 40 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		ARI06055300		
Resample at the next service interval to monitor.	Sample Date		Client Info		08 Jan 2024		
	Machine Age	hrs	Client Info		4500		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		N/A		
	Filter Changed		Client Info		N/A		
	Sample Status				NORMAL		
WEAR	Iron	ppm	ASTM D5185m	>100	5		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1		
	Nickel	ppm	ASTM D5185m	>4	<1		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m	>3	0		
	Aluminum	ppm	ASTM D5185m	>20	2		
	Lead	ppm	ASTM D5185m	>40	<1		
	Copper	ppm	ASTM D5185m	>330	<1		
	Tin	ppm	ASTM D5185m	>15	<1		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	5		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	22		
	Fuel		WC Method	>5	<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol	%	*ASTM D2982		NEG		
	Soot %	%	*ASTM D7844	>3	0.1		
	Nitration	Abs/cm	*ASTM D7624	>20	7.9		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.6		
	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		
	<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG		
ELUID CONDITION	0 "		AOTM DE LOS	040			
FLUID CONDITION	Sodium	ppm	ASTM D5185m		9		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		1		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m	100	55		
	Manganese	ppm	ASTM D5185m	4=0	<1		
	Magnesium	ppm	ASTM D5185m		881		
	Calcium	ppm	ASTM D5185m		1107		
	Phosphorus	ppm	ASTM D5185m		908		
	Zinc	ppm	ASTM D5185m		1200		
	Sulfur	ppm	ASTM D5185m		3535		
	Oxidation	Abs/.1mm	*ASTM D7414		15.8		
	Base Number (BN)		ASTM D2896		9.4		
	Visc @ 100°C	cSt	ASTM D445	14.4	14.3		







Laboratory Sample No. Lab Number Unique Number

: ARI06055300 : 06055300 : 10821249

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 09 Jan 2024

Diagnosed : 10 Jan 2024 Diagnostician : Jonathan Hester

Test Package : CONST ( Additional Tests: Glycol, TBN ) 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)

**INSITUFORM TECHNOLOGIES, INC** 

17988 EDISON AVE. CHESTERFIELD, MO US 63005

Contact: JOHN SLOAN ARICHTER@INSITUFORM.COM

T: (314)280-7555

F: