WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

Machine Id

## **NORTHERN LIGHTS M844LW3G 8434-62917**

Diesel Engine

**BREAK IN (--- QTS)** 

DREAK IN ( Q13)					.,		
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR06215263		
	Sample Date		Client Info		23 Mar 2024		
	Machine Age	hrs	Client Info		104		
	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	20		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1		
	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m	>3	0		
	Aluminum	ppm	ASTM D5185m		5		
	Lead	ppm	ASTM D5185m		2		
	Copper	ppm	ASTM D5185m		7		
	Tin	ppm	ASTM D5185m		0		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	19		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	4		
	Fuel	%	ASTM D3524	>5	0.4		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.1		
	Nitration	Abs/cm	*ASTM D7624	>20	4.3		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	13.9		
	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		
LUID CONDITION	Sodium	nnm	ASTM D5185m		2		
LOID CONDITION	Boron	ppm	ASTM D5185m		37		
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		6		
	Molybdenum	ppm	ASTM D5165III		73		
	Manganese	ppm	ASTM D5185m		2		
	_	ppm	ASTM D5185m		117		
	Magnesium Calcium	ppm	ASTM D5165III		1954		
		ppm	ASTM D5185m				
	Phosphorus	ppm			930		
	Zinc	ppm	ASTM D5185m		1184		
	Sulfur	ppm	ASTM D5185m	05	9051		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	6.3		
	Base Number (BN)		ASTM D2896		7.4		
	Visc @ 100°C	cSt	ASTM D445		9.8		







Report Id: JAMMAN [WUSCAR] 06215263 (Generated: 06/24/2024 17:26:37) Rev: 1

Laboratory Sample No.

Lab Number : 06215263

: JR06215263 Unique Number : 11088127

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

Received : 20 Jun 2024 **Tested** Diagnosed

: 24 Jun 2024

: 24 Jun 2024 - Don Baldridge

9107 OWENS DRIVE MANASSAS PARK, VA US 20111 Contact: DON VEST

JRE - MANASSAS PARK

Test Package : CONST ( Additional Tests: FuelDilution, PercentFuel, TBN ) Certificate L2367 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.

dvest@jamesriverequipment.com T: (703)631-8500 F: (703)631-4715

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

Contact/Location: DON VEST - JAMMAN