WEAR CONTAMINATION FLUID CONDITION

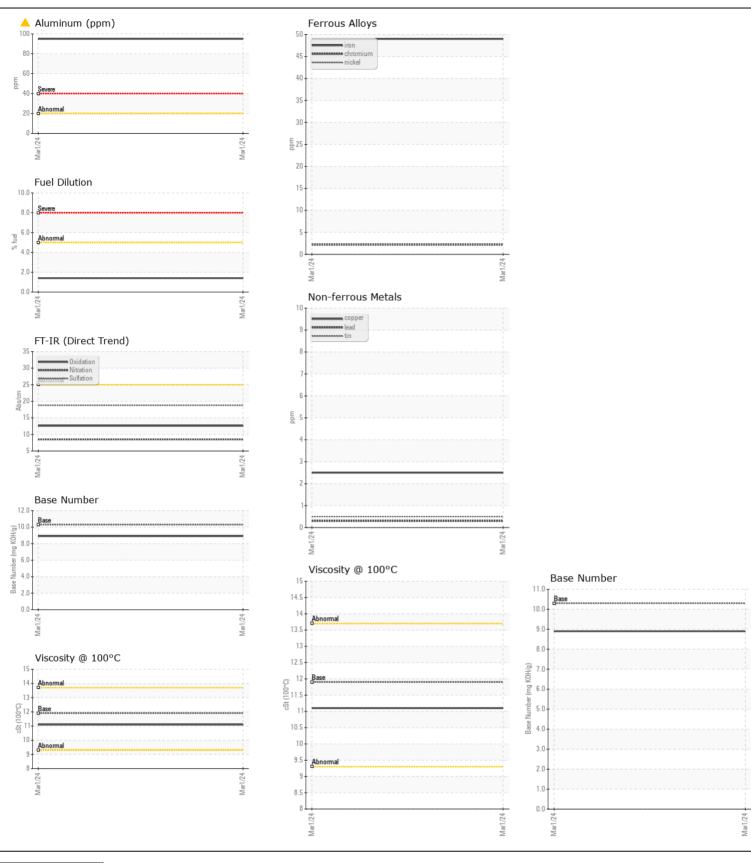
ABNORMAL NORMAL NORMAL

Machine Id **937793**

Component

Diesel Engine

Test	UOM	Method	Limit/Abn	Current	History1	History2
	OOW		LITTION			
•						
	mls					
•						
	mls			0		
_	_	Client Info				
-		Client Info				
•				_		
·						
Iron	ppm	ASTM D5185m	>100	49		
Chromium	ppm	ASTM D5185m	>20	2		
Nickel	ppm	ASTM D5185m	>4	2		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm			0		
Aluminum	ppm			<u> </u>		
Lead	ppm			<1		
Copper	ppm	ASTM D5185m	>330	2		
Tin	ppm		>15	<1		
Vanadium	ppm			0		
	scalar		NONE			
Yellow Metal	scalar	*Visual	NONE	NONE		
Silicon	ppm	ASTM D5185m	>25	11		
Potassium		ASTM D5185m	>20	9		
Fuel	%	ASTM D3524	>5	1.4		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
Soot %	%	*ASTM D7844	>3	0.7		
Nitration	Abs/cm	*ASTM D7624	>20	8.5		
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.8		
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		
	ppm					
	ppm					
	ppm					
-	ppm					
•	ppm		06.5			
	ppm					
	ppm					
	ppm					
	ppm					
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.6		
Base Number (BN)	mg KOH/g	ASTM D2896		8.9		
	Sample Number Sample Date Machine Age Oil Age Filter Age Oil Changed Filter Changed Sample Status Iron Chromium Nickel Titanium Silver Aluminum Lead Copper Tin Vanadium White Metal Yellow Metal Silicon Potassium Fuel Water Glycol Soot % Nitration Sulfation Silt Debris Sand/Dirt Appearance Odor	Sample Number Sample Date Machine Age mls Oil Age mls Filter Age mls Oil Changed Filter Changed Sample Status Iron ppm Chromium ppm Nickel ppm Titanium ppm Silver ppm Aluminum ppm Lead ppm Copper ppm Tin ppm Vanadium ppm White Metal scalar Yellow Metal scalar Yellow Metal scalar Silicon ppm Potassium ppm Fuel % Water Glycol Soot % % Nitration Abs/cm Sulfation Abs/.1mm Silt scalar Sand/Dirt scalar Sand/Dirt scalar Sand/Dirt scalar Sandroirt scalar Sodium ppm Boron ppm Boron ppm Boron ppm Barium ppm Manganese ppm Magnesium ppm Calcium ppm Phosphorus ppm Zinc ppm Sulfur ppm Sulfur ppm Sulfur ppm	Sample Number Sample Date Machine Age MIS Olient Info Client Info Oil Age MIS Client Info Client Info Client Info Client Info Oil Changed Filter Changed Sample Status Iron Chromium Dpm ASTM D5185m Chromium Dpm ASTM D5185m Nickel Dpm ASTM D5185m Aluminum Dpm ASTM D5185m Copper Dpm ASTM D5185m Copper Dpm ASTM D5185m Vanadium Dpm ASTM D5185m Vanadium Dpm ASTM D5185m White Metal Scalar Yellow Method Soot % You Method Soot % You Method Soot % You Method Soot % You Method Soot % Nitration Abs/.mm Yastm D5185m You al Yellow Scalar	Sample Number Sample Date Sample Date Machine Age MIS Client Info Machine Age MIS Client Info Sample Status Iron ppm ASTM D5185m Sample Status Iron Chromium ppm ASTM D5185m Silver ppm ASTM D5185m Vanadium ppm ASTM D5185m Vanadium ppm ASTM D5185m Vanadium ppm ASTM D5185m Vanadium ppm ASTM D5185m Vone Vellow Metal Scalar Visual NONE Silicon ppm ASTM D5185m Vone Fuel % ASTM D5185m Vone Soot % ASTM D5185m Vone Soot % ASTM D5185m Soot Soot % ASTM D5185m Vone Soot % ASTM D5185m Soot Soot % ASTM D5185m Vone Soot % ASTM D5185m None Soot % ASTM D5185m Astm D7624 Soot Soot % ASTM D5185m Astm D7624 Soot Soot Soot Soot Soot Soot Soot Soo	Sample Number Sample Date Client Info RY0123442 Sample Date Machine Age mls Client Info 0 1 Mar 2024 Machine Age mls Client Info 0 Oil Age mls Client Info 0 Filter Age mls Client Info Changed Filter Changed Sample Status Client Info Changed Iron ppm ASTM D5185m >100 49 Chromium ppm ASTM D5185m >20 2 Nickel ppm ASTM D5185m >4 2 Titanium ppm ASTM D5185m >3 0 Silver ppm ASTM D5185m >3 0 Aluminum ppm ASTM D5185m >20 4 95 Lead ppm ASTM D5185m >40 <1	Sample Number Client Info Sample Date Client Info O1 Mar 2024







Certificate L2367

Report Id: RYDER1223 [WUSCAR] 06187303 (Generated: 05/28/2024 15:24:21) Rev: 1

Laboratory Sample No.

Lab Number : 06187303 Unique Number : 11044055

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : RY0123442

Received **Tested** Diagnosed

: 22 May 2024 : 28 May 2024

: 28 May 2024 - Jonathan Hester Test Package: FLEET (Additional Tests: FuelDilution, PercentFuel)

anthonyingram@creamoland.com

Ryder Transportation Services

Contact: ANTHONY INGRAM

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)

Contact/Location: ANTHONY INGRAM - RYDER1223

240 NE 71 ST

MIAMI, FL

US 33138

T: F: