WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL NORMAL

Machine Id

14L485

Component Diesel Engine

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.	{not provided} (QTS)							
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. Sample Date Client Info 05 Jun 2024	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Description		Sample Number		Client Info		IL06217740		
Machine Age hrs Client Info 0		Sample Date		Client Info		05 Jun 2024		
Filter Age		Machine Age	hrs	Client Info		278		
Filter Age		Oil Age	hrs	Client Info				
Cil Changed Cilent Info N/A			hrs	Client Info		0		
Filter Changed Sample Status		-		Client Info		N/A		
VEAR		_		Client Info		N/A		
Metal levels are typical for a new component breaking in. Chromium ppm ASTM D5185m >20 2		_				NORMAL		
Metal levels are typical for a new component breaking in. Chromium ppm ASTM D5185m >20 2	WEAR	Iron	ppm	ASTM D5185m	>100	51		
Metal levels are typical for a new component breaking in. Nickel ppm ASTM 05185m >4 0 Titanium ppm ASTM 05185m >3 0 Aluminum ppm ASTM 05185m >20 8 Aluminum ppm ASTM 05185m >40 0 Copper ppm ASTM 05185m >40 0 Vanadium ppm ASTM 05185m >15 0 Vanadium ppm ASTM 05185m >15 0 Vanadium ppm ASTM 05185m >15 0 Vanadium ppm ASTM 05185m >15 0 Vanadium ppm ASTM 05185m >20 Fuel content negligible. There is no indication of any contamination in the oil. Fuel Samma	WEAR							
Titanium ppm ASTM D5185m 3 0	Metal levels are typical for a new component breaking in.							
Silver ppm ASTM D5185m >3 0 Aluminum ppm ASTM D5185m >20 8 Lead ppm ASTM D5185m >20 8 Lead ppm ASTM D5185m >30 39 Copper ppm ASTM D5185m >15 0 Vanadium ppm ASTM D5185m >25 31 Value Scalar *Visual NONE NONE NONE Value Potassium ppm ASTM D5185m >20 20 Fuel content negligible. There is no indication of any contamination in the oil. Silicon ppm ASTM D5185m >20 20 Fuel % ASTM D5185m >20 21 Sulfation Abs/mm *ASTM D5185m >30 21 4 Sulfation Abs/mm *ASTM D5185m NONE NONE Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NONE NONE Appearance scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML NORML Condition ppm ASTM D5185m 26 FLUID CONDITION Sodium ppm ASTM D5185m 26 ASTM D5185m 26 ASTM D5185m 26 ASTM D5185m >30 26 ASTM D5185m >20 26					7			
Aluminum ppm ASTM D5185m >20 8					. 2			
Lead								
Copper								
Tin								
Vanadium ppm ASTM D5185m <1		• •						
White Metal Scalar *Visual NONE NONE NONE Yellow Metal Scalar *Visual NONE NON					>15			
Yellow Metal scalar "Visual NONE NONE								
Silicon ppm ASTM D5185m >25 31								
Potassium ppm ASTM D5185m >20 20 Fuel % ASTM D3524 >5 0.6 Fuel % ASTM D3524 >5 0.6 Water WC Method >0.2 NEG Glycol WC Method NEG Soot % *ASTM D7844 >3 0.4 Nitration Abs/cm *ASTM D7624 >20 11.0 Sulfation Abs/lmm *ASTM D7415 >30 21.4 Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML		Yellow Metal	scalar	*Visual	NONE	NONE		
Fuel content negligible. There is no indication of any contamination in the oil. Fuel	CONTAMINATION	Silicon	ppm					
the oil. Water		Potassium	ppm	ASTM D5185m	>20	20		
Water WC Method So.2 NEG So.2 NEG So.2 NEG So.3 NE		Fuel	%	ASTM D3524	>5	0.6		
Soot %		Water		WC Method	>0.2	NEG		
Nitration		Glycol		WC Method		NEG		
Sulfation		Soot %	%	*ASTM D7844	>3	0.4		
Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NOR		Nitration	Abs/cm	*ASTM D7624	>20	11.0		
Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NORML		Sulfation	Abs/.1mm	*ASTM D7415	>30	21.4		
Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML Emulsified Water scalar *Visual >0.2 NEG FLUID CONDITION Sodium ppm ASTM D5185m 5 Boron ppm ASTM D5185m 26		Silt	scalar	*Visual	NONE	NONE		
Appearance scalar *Visual NORML NORM		Debris	scalar	*Visual	NONE	NONE		
Odor scalar *Visual NORML Emulsified Water scalar *Visual >0.2 NEG FLUID CONDITION Sodium ppm ASTM D5185m 5 Boron ppm ASTM D5185m 26		Sand/Dirt	scalar	*Visual	NONE	NONE		
Emulsified Water scalar *Visual >0.2 NEG FLUID CONDITION Sodium ppm ASTM D5185m 5 Boron ppm ASTM D5185m 26		Appearance	scalar	*Visual	NORML	NORML		
Emulsified Water scalar *Visual >0.2 NEG FLUID CONDITION Sodium ppm ASTM D5185m 5 Boron ppm ASTM D5185m 26		Odor	scalar	*Visual	NORML	NORML		
Boron ppm ASTM D5185m 26		Emulsified Water	scalar	*Visual	>0.2	NEG		
Boron ppm ASTM D5185m 26	FLUID CONDITION	Sodium	ppm	ASTM D5185m		5		
						26		
The BN result indicates that there is suitable alkalinity remaining in the	The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.							
oil. The condition of the oil is suitable for further service. Molybdenum ppm ASTM D5185m 52								
Manganese ppm ASTM D5185m 6								
Calcium ppm ASTM D5185m 1346		•						
Phosphorus ppm ASTM D5185m 725								
Zinc ppm ASTM D5185m 943		•						
Sulfur ppm ASTM D5185m 2598								
Oxidation Abs/.1mm *ASTM D7414 >25 20.7					>25			
Base Number (BN) mg KOH/g ASTM D2896 7.2					725			
		\ /						
Visc @ 100°C cSt ASTM D445		VISC @ 100 C	COL	AUTIVI D440		11.7		





Report Id: IDECIN [WUSCAR] 06217740 (Generated: 06/29/2024 23:36:53) Rev: 1

Laboratory Sample No.

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

: IL06217740 **Lab Number** : 06217740 Unique Number : 11090604

Received : 24 Jun 2024 **Tested** Diagnosed

: 27 Jun 2024 : 27 Jun 2024 - Jonathan Hester

RUSH TRUCK LEASING - CINCINNATI IDEALEASE 11777 HIGHWAY DRIVE

CINCINNATI, OH US 45241 Contact: ROBERT BAIER

Test Package: FLEET (Additional Tests: FuelDilution, PercentFuel) 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.

baierr@rushenterprises.com T: (513)657-7901 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (513)733-0537

Contact/Location: ROBERT BAIER - IDECIN