WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

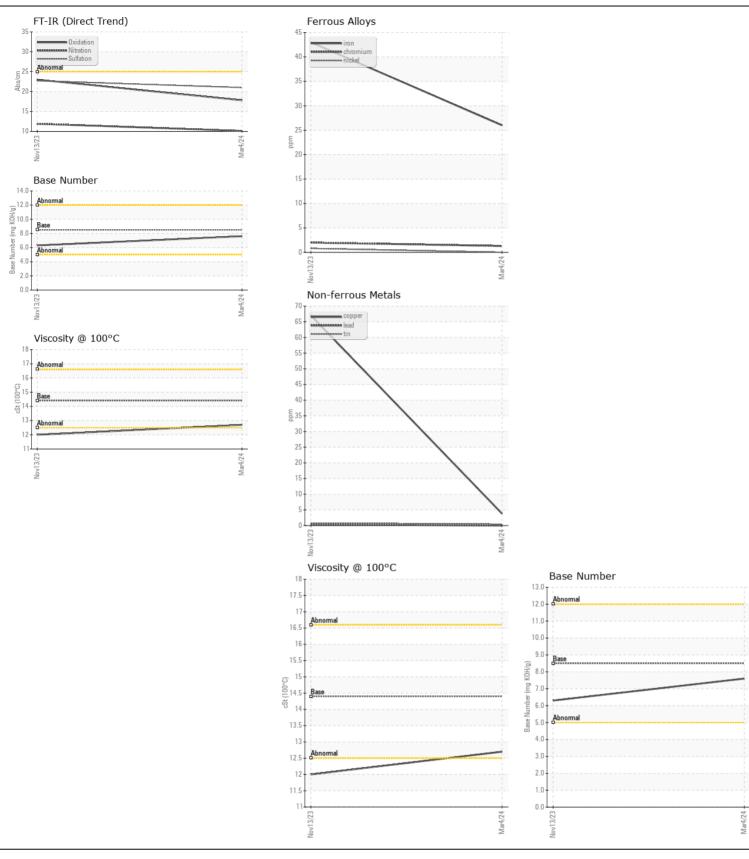
Machine Id

142461

## Diesel Engine

DIESEL ENGINE OIL SAE 40 (--- QTS)

Recommendation   Reco	DIESEL ENGINE OIL SAE 40 ( QTS)							
Resample at the noxt service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC)   Sample Date   Client Info   Machine Age   15	RECOMMENDATION	Test	HOM	Method	Limit/Ahn	Current	History1	History2
Resemple at the next service interval to monifor. The full was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm.	Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm.		OOW		LIIIIU/ (OII			
Machine Age   Noverver, a fluture drath microster hat mis thud is (GENEHIC)   DIESEE LENNING DIESEA   Please confirm.   Machine Age   his   Cilent Info   0   0								
Dit Spet   Prison   Client Info   Client I			hrs					
Filter Age		J						
Oil Changed   Cilent Info   N/A	Please specify the component make and model with your next sample.							
Filter Changed   Client Info   NA   NA   NA   NA   NA   NA   NA   N		•	1110					
NORMAL   N		-						
Iron		_		Olletti IIIIO				
Metal levels are typical for a new component breaking in.   Chromium   ppm   ASTM D5185m   > 0						NONWAL		
Metal levels are typical for a new component breaking in.   Chromium   ppm   ASTM D585m   >4   0   <1       Titanium   ppm   ASTM D585m   >4   0   <1       Titanium   ppm   ASTM D585m   >4   0   <1       Titanium   ppm   ASTM D585m   >4   0   <1       All uninium   ppm   ASTM D585m   >0   0   0       All uninium   All uni		Iron	ppm	ASTM D5185m	>100	26	43	
Nickel   ppm   ASTM 05185m   0   <1   · · · · · · · · · · · · · · · · · ·		Chromium		ASTM D5185m	>20		2	
Titanium   ppm   ASTM D585s   3   0   0   -1		Nickel				0	<1	
Silver   ppm   ASTM D5185n   >20   10   12		Titanium		ASTM D5185m		0	<1	
Aluminum   ppm   ASTM DS185m   >20   10   12					>3			
Lead   ppm   ASTM DS185m   >40   0   < 1								
Copper								
Tin								
Vanadium   ppm   ASTM D5185m   NONE   NONE								
White Metal   Scalar   Visual   NONE   NON					7.0			
Secont Administration   Secont Administration   Secont Administration   Secont Administration   Second Administration   Seco					NONE			
CONTAMINATION   Contaminatio   Contamination   Contamination   Contamination   Contamination								
Potassium   ppm   ASTM D5165m   20   22   44				VIOUUI				
Potassium   ppm   ASTM D5165m   20   22   44	CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	7	20	
You metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.   Water   Wc Method   NEG   NEG	Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no	Potassium	ppm	ASTM D5185m	>20	22	44	
Water   WC Method   NEG   NE		Fuel		WC Method	>5	<1.0	1.0	
FLUID CONDITION   Sodium   Popm   ASTM D5185m   250   16   26		Water		WC Method	>0.2	NEG	NEG	
Soot %		Glycol		WC Method		NEG	NEG	
Nitration		-	%	*ASTM D7844	>3	0.4	0.3	
Silt   Scalar   *Visual   NONE   NO		Nitration						
Silt   scalar   *Visual   NONE   NO		Sulfation	Abs/.1mm	*ASTM D7415	>30	21.0	22.7	
Sand/Dirt   Scalar *Visual   NONE   NONE   NONE   Appearance   Scalar *Visual   NORML   NORM		Silt	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt   Scalar *Visual   NONE   NONE   NONE   Appearance   Scalar *Visual   NORML   NORM		Debris	scalar	*Visual	NONE	NONE	NONE	
Codor   Scalar   *Visual   NORML   N		Sand/Dirt	scalar				NONE	
Codor   Scalar   *Visual   NORML   N		Appearance	scalar	*Visual	NORML	NORML	NORML	
Sodium   ppm   ASTM D5185m   >216   0   5		• •	scalar	*Visual			NORML	
Sodium   ppm   ASTM D5185m   >216   0   5		<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	
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   10   0   19								
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   10   0   19	FLUID CONDITION	Sodium	ppm	ASTM D5185m	>216	0	5	
oil. The condition of the oil is suitable for further service.    Molybdenum   ppm   ASTM D5185m   100   67   50       Manganese   ppm   ASTM D5185m   450   811   787       Calcium   ppm   ASTM D5185m   3000   1342   1225       Phosphorus   ppm   ASTM D5185m   1150   1062   648       Zinc   ppm   ASTM D5185m   1350   1274   895       Sulfur   ppm   ASTM D5185m   4250   3455   2362       Oxidation   Abs/.1mm   *ASTM D7414   >25   17.8   23.0       Base Number (BN)   mg KOH/g   ASTM D2896   8.5   7.6   6.3		Boron	ppm	ASTM D5185m	250	16	26	
Molybdenum         ppm         ASTM D5185m         100         67         50            Manganese         ppm         ASTM D5185m         <1	, ,	Barium	ppm	ASTM D5185m	10	0	19	
Magnesium         ppm         ASTM D5185m         450         811         787            Calcium         ppm         ASTM D5185m         3000         1342         1225            Phosphorus         ppm         ASTM D5185m         1150         1062         648            Zinc         ppm         ASTM D5185m         1350         1274         895            Sulfur         ppm         ASTM D5185m         4250         3455         2362            Oxidation         Abs/.1mm         *ASTM D7414         >25         17.8         23.0            Base Number (BN)         mg KOH/g         ASTM D2896         8.5         7.6         6.3		Molybdenum	ppm	ASTM D5185m	100	67	50	
Calcium         ppm         ASTM D5185m         3000         1342         1225            Phosphorus         ppm         ASTM D5185m         1150         1062         648            Zinc         ppm         ASTM D5185m         1350         1274         895            Sulfur         ppm         ASTM D5185m         4250         3455         2362            Oxidation         Abs/.1mm         *ASTM D7414         >25         17.8         23.0            Base Number (BN)         mg KOH/g         ASTM D2896         8.5         7.6         6.3		Manganese	ppm	ASTM D5185m		<1	7	
Phosphorus         ppm         ASTM D5185m         1150         1062         648            Zinc         ppm         ASTM D5185m         1350         1274         895            Sulfur         ppm         ASTM D5185m         4250         3455         2362            Oxidation         Abs/.1mm         *ASTM D7414         >25         17.8         23.0            Base Number (BN)         mg KOH/g         ASTM D2896         8.5         7.6         6.3		Magnesium	ppm	ASTM D5185m	450	811	787	
Zinc         ppm         ASTM D5185m         1350         1274         895            Sulfur         ppm         ASTM D5185m         4250         3455         2362            Oxidation         Abs/.1mm         *ASTM D7414         >25         17.8         23.0            Base Number (BN)         mg KOH/g         ASTM D2896         8.5         7.6         6.3		Calcium	ppm			1342	1225	
Sulfur         ppm         ASTM D5185m         4250         3455         2362            Oxidation         Abs/.1mm         *ASTM D7414         >25         17.8         23.0            Base Number (BN)         mg KOH/g         ASTM D2896         8.5         7.6         6.3		Phosphorus	ppm	ASTM D5185m	1150	1062	648	
Oxidation         Abs/.1mm         *ASTM D7414         >25         17.8         23.0            Base Number (BN)         mg KOH/g         ASTM D2896         8.5         7.6         6.3		Zinc	ppm	ASTM D5185m	1350	1274	895	
Base Number (BN)         mg KOH/g         ASTM D2896         8.5         7.6         6.3		Sulfur	ppm	ASTM D5185m	4250	3455	2362	
		Oxidation	Abs/.1mm	*ASTM D7414	>25	17.8	23.0	
Visc @ 100°C cSt ASTM D445 14.4 \ 12.7 \) 12.0		Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.6	6.3	
		Visc @ 100°C	cSt	ASTM D445	14.4	12.7	12.0	







Certificate L2367

Laboratory Sample No.

: IL06151632 Lab Number : 06151632 Unique Number : 10981710 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 17 Apr 2024 **Tested** : 18 Apr 2024

Diagnosed : 18 Apr 2024 - Wes Davis

**RUSH TRUCK LEASING - CINCINNATI IDEALEASE** 

Contact/Location: ROBERT BAIER - IDECIN

11777 HIGHWAY DRIVE CINCINNATI, OH US 45241

Contact: ROBERT BAIER baierr@rushenterprises.com T: (513)657-7901

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)