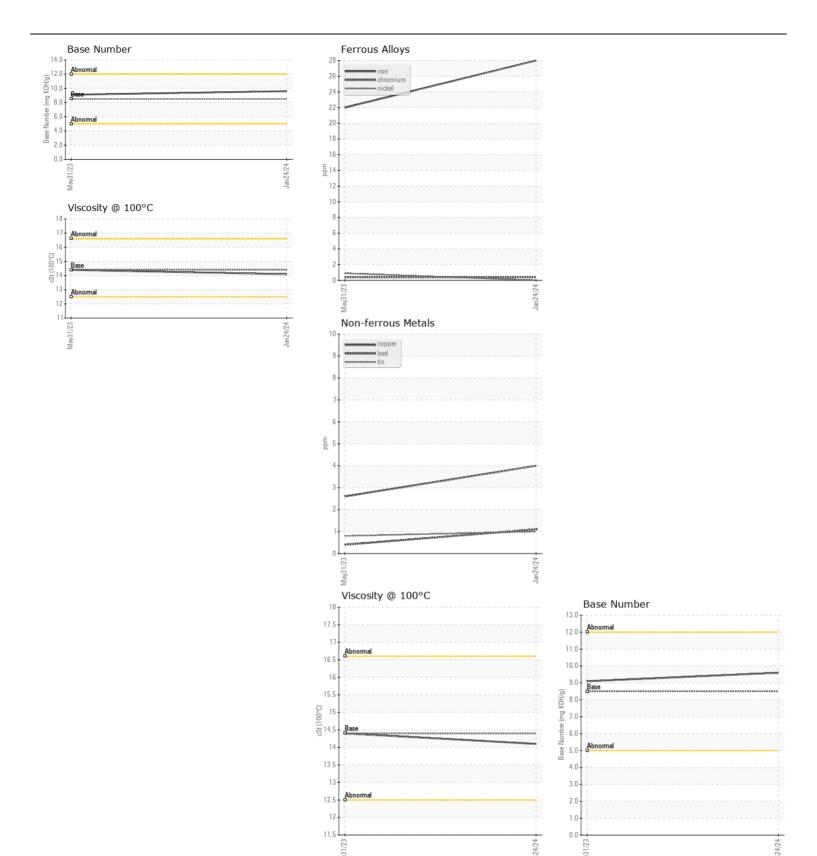


**WEAR** CONTAMINATION **FLUID CONDITION**  **NORMAL NORMAL NORMAL** 

Machine Id **846-3904** 

Component Diesel Engine

Test	DIESEL ENGINE OIL SAE 15W40 ( QTS)							
Resample at the noxt service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the property of the oil on your next sample. Please specify the oil of the oil suitable for further service. Please specify the oil of the oil suitable for further service. Please specify the oil of the oil suitable for further service. Please specify the oil of the oil suitable for further service. Please specify the oil of the oil suitable for further service. Please specify the oil of the oil suitable for further service. Please specify the oil of the oil suitable for further service. Please specify the oil of the oil of the oil suitable for furth		Toet	LIOM	Method	Limit/Ahn	Current	History1	History2
Resample at the next service interval for monitor. Please specify the brand, type, and viscosity of the oil on your next sample.   Sample Date   Machine Age   mis   Cilent Info   4045   0     0   1   1   1   1   1   1   1   1   1	Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the		OOW		LIIIIUAUII			,
Machine Age   mils   Cilent Info   121677   121426   mils   Cilent Info   4045   0   mils   Cilent Info   4045   mils   40								
Oil Ape			mls				-	
Filter Age		•						
Pitter Changed   Cilent Info   Changed   Cilent Info   Changed							_	
Sample Status		•	11110					
Normal   N		0					Ŭ	
All component wear rates are normal.    Chromium   ppm   ASTM Disiss   -4   0   -1   -1   -1   -1   -1   -1   -1		•				_	Ü	
All component wear rates are normal.    Nicke	WEAR	Iron	ppm	ASTM D5185m	>100	28	22	
Titanium   Dim   SSTM DiSists   C   C   C   C		Chromium	ppm	ASTM D5185m	>20	<1	<1	
Silver   ppm   ASTM D5185m   >20   3   0   0   0   0   0   0   0   0		Nickel	ppm	ASTM D5185m	>4	0	<1	
Aluminum   ppm   ASTM D5185m   >20   3   4		Titanium	ppm	ASTM D5185m		<1	0	
Lead		Silver	ppm	ASTM D5185m	>3	0	0	
Copper		Aluminum	ppm	ASTM D5185m	>20	3	4	
Tin		Lead	ppm	ASTM D5185m	>40	1	<1	
Vanadium   ppm   ASTM 05185m   <1   <1		Copper	ppm	ASTM D5185m	>330	4	3	
White Metal Yellow Metal Scalar Yusual NoNE NONE NONE NONE NONE NONE NONE NONE		Tin	ppm	ASTM D5185m	>15	1	<1	
Scalar   Visual   NONE   NON		Vanadium	ppm	ASTM D5185m		<1	<1	
Silicon   ppm   ASTM D5185m   >25   4   4		White Metal	scalar	*Visual	NONE	NONE	NONE	
Potassium   ppm   ASTM D5185m   >20   6   8		Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
There is no indication of any contamination in the oil.    Fuel   WC Method   >5   <1.0   <1.0       Water   WC Method   >0.2   NEG   NEG       Glycol   WC Method   >0.2   NEG   NEG       Soot % % % '*ASTM 07844   >3   0.2   0.2       Nitration   Abs/rm   '*ASTM 07844   >3   0.2   0.2       Sulfation   Abs/rm   '*ASTM 07845   >30   18.5   19.3       Silt   Scalar   '*Visual   NONE   N	CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	4	4	
Valer	There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	6	8	
Glycol   Soot % %		Fuel		WC Method	>5	<1.0	<1.0	
Soot %		Water		WC Method	>0.2	NEG	NEG	
Nitration   Abs/cm   *ASTM D7624   >20   6.2   5.9		Glycol		WC Method		NEG	NEG	
Sulfation   Abs/.tmm   *ASTM D7415   >30   18.5   19.3		Soot %	%	*ASTM D7844	>3	0.2	0.2	
Silt   Scalar   *Visual   NONE   NONE   NONE   NONE   NONE   NONE   NONE   Scalar   *Visual   NONE   NORML   NO		Nitration	Abs/cm			6.2		
Debris   Scalar   *Visual   NONE   NORML			Abs/.1mm	*ASTM D7415	>30	18.5	19.3	
Sand/Dirt   Scalar   *Visual   NONE   NONE   NORML		Silt	scalar			_		
Appearance   Scalar   *Visual   NORML   NORM			scalar	*Visual		_		
Calcium   Calc								
Emulsified Water   scalar *Visual   >0.2   NEG   NEG								
Sodium   ppm   ASTM D5185m   >158   2   1								
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   10   0   0   0   0   0   0   0   0		Emulsified Water	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   100   47   56	FLUID CONDITION	Sodium	ppm	ASTM D5185m	>158	2	1	
oil. The condition of the oil is suitable for further service.    Molybdenum   ppm   ASTM D5185m   100   47   56	,		ppm	ASTM D5185m	250	8	7	
Molybdenum         ppm         ASTM D5185m         100         47         56            Manganese         ppm         ASTM D5185m         <1         <1            Magnesium         ppm         ASTM D5185m         450         780         960            Calcium         ppm         ASTM D5185m         3000         981         1124            Phosphorus         ppm         ASTM D5185m         1150         885         1030            Zinc         ppm         ASTM D5185m         1350         1041         1262            Sulfur         ppm         ASTM D5185m         4250         2545         3823            Oxidation         Abs/.1mm         *ASTM D7414         >25         14.7         15.9            Base Number (BN)         mg KOH/g         ASTM D2896         8.5         9.6         9.1			ppm					
Magnesium         ppm         ASTM D5185m         450         780         960            Calcium         ppm         ASTM D5185m         3000         981         1124            Phosphorus         ppm         ASTM D5185m         1150         885         1030            Zinc         ppm         ASTM D5185m         1350         1041         1262            Sulfur         ppm         ASTM D5185m         4250         2545         3823            Oxidation         Abs/.1mm         *ASTM D7414         >25         14.7         15.9            Base Number (BN)         mg KOH/g         ASTM D2896         8.5         9.6         9.1		•			100	47		
Calcium         ppm         ASTM D5185m         3000         981         1124            Phosphorus         ppm         ASTM D5185m         1150         885         1030            Zinc         ppm         ASTM D5185m         1350         1041         1262            Sulfur         ppm         ASTM D5185m         4250         2545         3823            Oxidation         Abs/.1mm         *ASTM D7414         >25         14.7         15.9            Base Number (BN)         mg KOH/g         ASTM D2896         8.5         9.6         9.1			ppm					
Phosphorus         ppm         ASTM D5185m         1150         885         1030            Zinc         ppm         ASTM D5185m         1350         1041         1262            Sulfur         ppm         ASTM D5185m         4250         2545         3823            Oxidation         Abs/.1mm         *ASTM D7414         >25         14.7         15.9            Base Number (BN)         mg KOH/g         ASTM D2896         8.5         9.6         9.1		•	ppm					
Zinc         ppm         ASTM D5185m         1350         1041         1262            Sulfur         ppm         ASTM D5185m         4250         2545         3823            Oxidation         Abs/.1mm         *ASTM D7414         >25         14.7         15.9            Base Number (BN)         mg KOH/g         ASTM D2896         8.5         9.6         9.1								
Sulfur         ppm         ASTM D5185m         4250         2545         3823            Oxidation         Abs/.1mm         *ASTM D7414         >25         14.7         15.9            Base Number (BN)         mg KOH/g         ASTM D2896         8.5         9.6         9.1		•						
Oxidation         Abs/.1mm         *ASTM D7414         >25         14.7         15.9            Base Number (BN)         mg KOH/g         ASTM D2896         8.5         9.6         9.1								
Base Number (BN)         mg KOH/g         ASTM D2896         8.5         9.6         9.1								
Visc @ 100°C cSt ASTM D445 14.4 14.1 14.4								
		Visc @ 100°C	cSt	ASTM D445	14.4	14.1	14.4	







Laboratory Sample No. Lab Number **Unique Number** 

: RPL0017463 : 06076554 : 10858645 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 01 Feb 2024 Diagnosed : 01 Feb 2024

Diagnostician : Wes Davis

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. RTL PACLEASE - 7007 - Fontana 3121 South Riverside

Bloomington, CA US 92316 Contact: Rudy Trevizo

TrevizoR@RushEnterprises.Com T: (909)829-1044

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