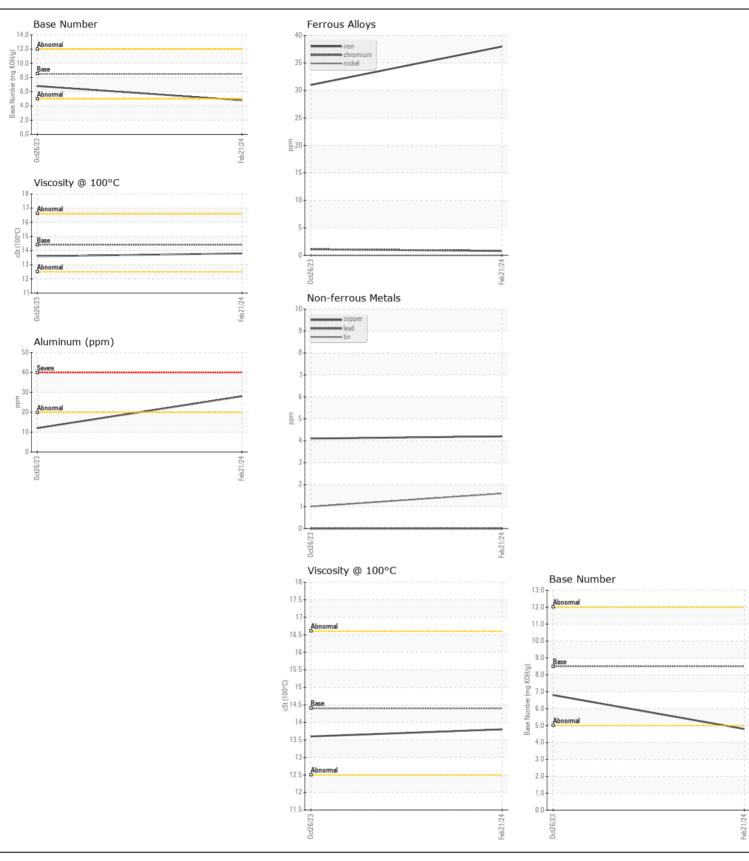


WEAR CONTAMINATION **FLUID CONDITION** **NORMAL NORMAL NORMAL**

Machine Id **857-5058**

Component Diesel Engine							
Fluid							
DIESEL ENGINE OIL SAE 15W40 (QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next 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.	Sample Number		Client Info		RPL0011128	RPL0011181	
	Sample Date		Client Info		21 Feb 2024	26 Oct 2023	
	Machine Age	mls	Client Info		75195	47769	
	Oil Age	mls	Client Info		0	0	
	Filter Age	mls	Client Info		0	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185m	>100	38	31	
WEAT	Chromium	ppm	ASTM D5185m		<1	1	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	
	Titanium	ppm	ASTM D5185m		0	<1	
	Silver	ppm	ASTM D5185m	>3	<1	<1	
	Aluminum	ppm	ASTM D5185m		28	12	
	Lead	ppm	ASTM D5185m	>40	0	0	
	Copper	ppm	ASTM D5185m	>330	4	4	
	Tin	ppm	ASTM D5185m	>15	2	1	
	Vanadium	ppm	ASTM D5185m		0	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	ACTM DE10E	05	40	4.5			
CONTAMINATION	Silicon	ppm	ASTM D5185m		16	15	
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 indication of any contamination in the oil.	Potassium Fuel	ppm	ASTM D5185m WC Method		64	23	
	Water		WC Method	>5	<1.0 NEG	<1.0 NEG	
	Glycol		WC Method	>0.2	NEG	NEG	
	Soot %	%	*ASTM D7844	~3	0.4	0.3	
	Nitration	Abs/cm	*ASTM D7624	>20	12.1	10.6	
	Sulfation	Abs/.1mm	*ASTM D7415		24.0	22.6	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
ELUID CONDITION			40714 85405	4=0			
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3	2	
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		26	37	
	Barium	ppm	ASTM D5185m ASTM D5185m	-	0	0	
	Molybdenum Manganese	ppm	ASTM D5185m	100	91 1	60	
	Magnesium	ppm	ASTM D5185m	450	669	679	
	Calcium	ppm	ASTM D5185m		1495	1711	
	Phosphorus	ppm	ASTM D5185m		794	797	
	Zinc	ppm	ASTM D5185m		966	1037	
	Sulfur	ppm	ASTM D5185m		3211	2859	
	Oxidation	Abs/.1mm	*ASTM D7414		23.2	22.9	
	Base Number (BN)				4.8	6.8	
	Visc @ 100°C	cSt	ASTM D445		13.8	13.6	
			•	-			







Laboratory

Sample No.

: RPL0011128 Lab Number : 06124179 Unique Number: 10938330 Test Package : FLEET

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 20 Mar 2024 : 21 Mar 2024 **Tested**

: 21 Mar 2024 - Wes Davis Diagnosed

RTL PACLEASE - 7008 - Phoenix 625 South 27th Ave

Phoenix, AZ US 85009

Contact: Maurice Pilotte PilotteM@rushenterprises.com

T: (602)566-5712

* - 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)

Report Id: PAC7008 [WUSCAR] 06124179 (Generated: 03/21/2024 15:39:35) Rev: 1

Contact/Location: Maurice Pilotte - PAC7008