WEAR CONTAMINATION **FLUID CONDITION**

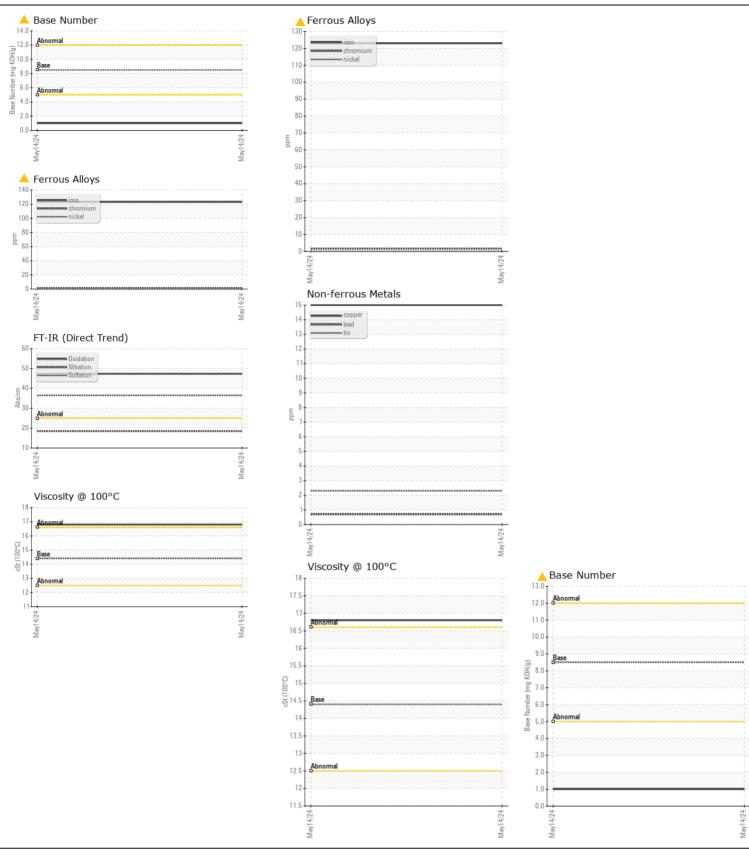
ABNORMAL NORMAL **ABNORMAL**

Machine Id

1461427

Component Diesel Engine

					(
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition.	Sample Number		Client Info		RPL0017056		
	Sample Date		Client Info		14 May 2024		
	Machine Age	mls	Client Info		108521		
	Oil Age	mls	Client Info		59116		
	Filter Age	mls	Client Info		59116		
	Oil Changed		Client Info		N/A		
	Filter Changed		Client Info		N/A		
	Sample Status				ABNORMAL		
WEAR	Iron	ppm	ASTM D5185m	>100	123		
	Chromium	ppm	ASTM D5185m		2		
Cylinder, crank, or cam shaft wear is indicated.	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m	>3	<1		
	Aluminum	ppm	ASTM D5185m		16		
	Lead	ppm	ASTM D5185m		<1		
	Copper	ppm	ASTM D5185m		15		
	Tin	ppm	ASTM D5185m		2		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m		13		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		43		
	Fuel		WC Method	>5	<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844		0.8		
	Nitration	Abs/cm	*ASTM D7624	>20	18.5		
	Sulfation	Abs/.1mm	*ASTM D7415		36.4		
	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		
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>158	5		
1 LOID CONDITION	Boron	ppm	ASTM D5185m		45		
The BN level is low.	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		33		
	Manganese	ppm	ASTM D5185m		2		
	Magnesium	ppm	ASTM D5185m	450	745		
	Calcium	ppm	ASTM D5185m		1702		
	Phosphorus	ppm	ASTM D5185m		917		
	Zinc	ppm	ASTM D5185m		1085		
	Sulfur	ppm	ASTM D5185m		3292		
	Oxidation	Abs/.1mm	*ASTM D7414		47.3		
	Base Number (BN)	mg KOH/g			<u> </u>		
	Visc @ 100°C	cSt	ASTM D445		16.8		





Certificate L2367

Laboratory Sample No.

: RPL0017056 Lab Number : 06187269 Unique Number : 11044021 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 22 May 2024 **Tested** : 23 May 2024

Diagnosed : 24 May 2024 - Sean Felton 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.

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

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