

WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

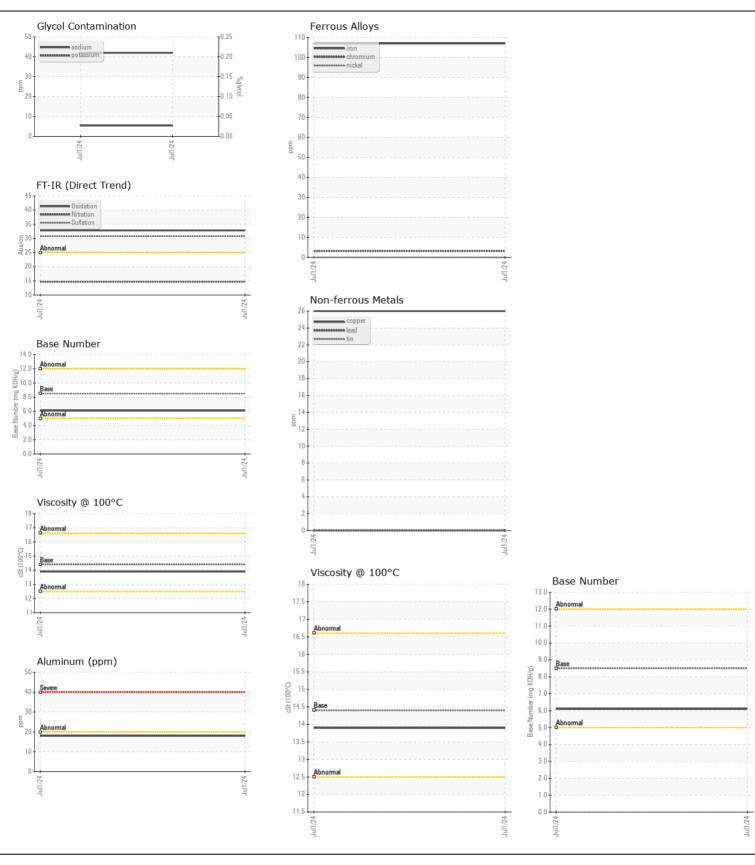
Machine Id

**781296** 

## Diesel Engine

DIESEL ENGINE OIL SAE 40 (--- GAL)

DIESEL ENGINE OIL SAE 40 ( GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		RPL06234141		
	Sample Date		Client Info		01 Jul 2024		
	Machine Age	mls	Client Info		22269		
	Oil Age	mls	Client Info		22269		
	Filter Age	mls	Client Info		0		
	Oil Changed		Client Info		N/A		
	Filter Changed		Client Info		N/A		
	Sample Status				NORMAL		
WEAR	Iron	ppm	ASTM D5185m		107		
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m	>20	3		
	Nickel	ppm	ASTM D5185m	>4	0		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m	>3	0		
	Aluminum	ppm	ASTM D5185m		18		
	Lead	ppm	ASTM D5185m	>40	0		
	Copper	ppm	ASTM D5185m		26		
	Tin	ppm	ASTM D5185m	>15	0		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m		31		
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. No other contaminants were detected in the oil.	Potassium	ppm	ASTM D5185m	>20	42		
	Fuel		WC Method	>5	<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.7		
	Nitration	Abs/cm	*ASTM D7624	>20	14.7		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	30.7		
	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		
	<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		5		
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		121		
oil. The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185m	10	6		
	Molybdenum	ppm	ASTM D5185m	100	120		
	Manganese	ppm	ASTM D5185m		6		
	Magnesium	ppm	ASTM D5185m		666		
	Calcium	ppm	ASTM D5185m		1765		
	Phosphorus	ppm	ASTM D5185m	1150	833		
	Zinc	ppm	ASTM D5185m	1350	992		
	Sulfur	ppm	ASTM D5185m	4250	2955		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	32.8		
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	6.1		





Certificate L2367

Laboratory Sample No.

: RPL06234141 Lab Number : 06234141 Unique Number : 11122975 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 11 Jul 2024 **Tested** 

: 12 Jul 2024 : 14 Jul 2024 - Don Baldridge Diagnosed

RTL PACLEASE - 7050 -Leasing Tyler

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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)