



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Machine Id  
**813651**  
 Component  
**Diesel Engine**  
 Fluid  
**MOBIL DELVAC EXTREME 15W40 (--- GAL)**

## RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

## WEAR

Metal levels are typical for a new component breaking in.

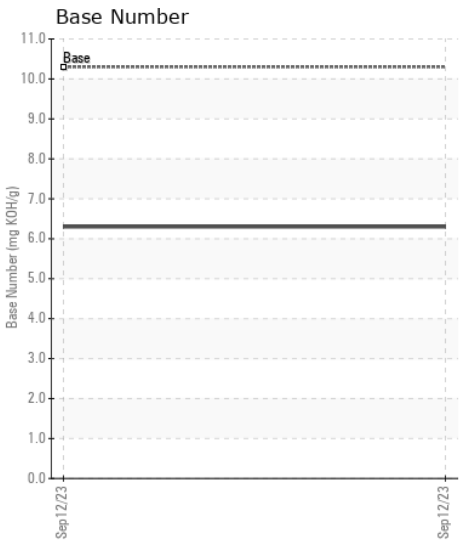
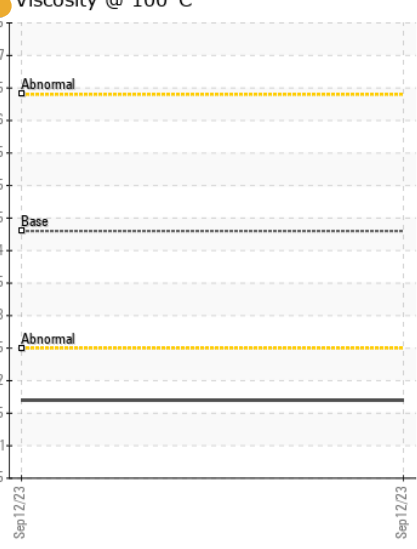
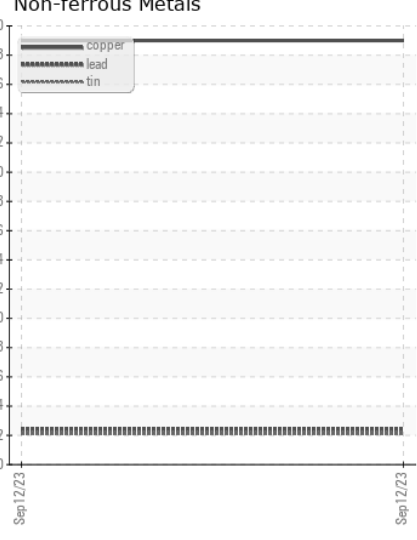
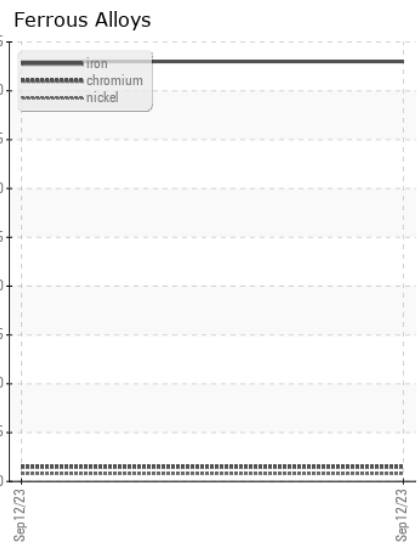
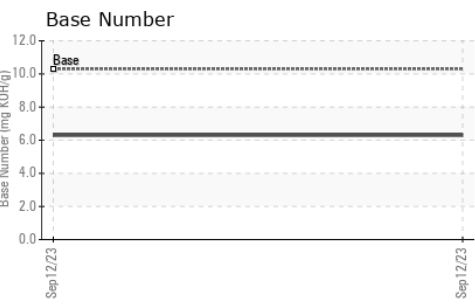
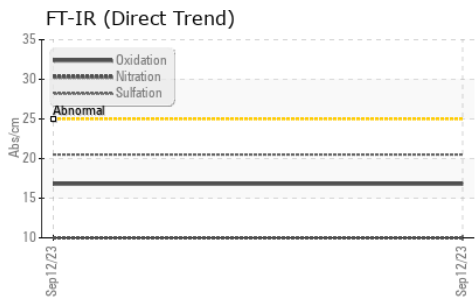
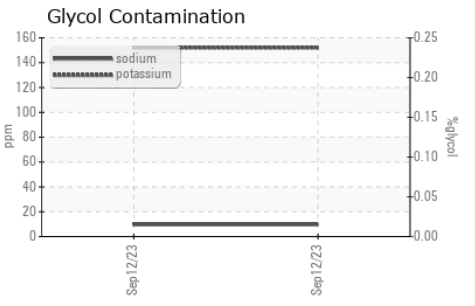
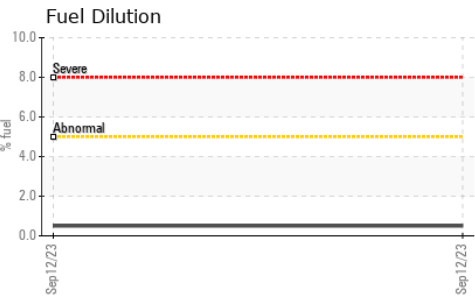
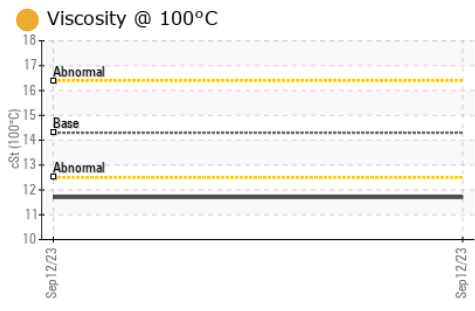
## CONTAMINATION

Fuel content negligible. 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.

## FLUID CONDITION

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0008067	---	---
Sample Date		Client Info		12 Sep 2023	---	---
Machine Age	mls	Client Info		22375	---	---
Oil Age	mls	Client Info		22375	---	---
Filter Age	mls	Client Info		22375	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				ATTENTION	---	---
Iron	ppm	ASTM D5185m	>100	43	---	---
Chromium	ppm	ASTM D5185m	>20	2	---	---
Nickel	ppm	ASTM D5185m	>4	<1	---	---
Titanium	ppm	ASTM D5185m		<1	---	---
Silver	ppm	ASTM D5185m	>3	<1	---	---
Aluminum	ppm	ASTM D5185m	>20	44	---	---
Lead	ppm	ASTM D5185m	>40	2	---	---
Copper	ppm	ASTM D5185m	>330	29	---	---
Tin	ppm	ASTM D5185m	>15	2	---	---
Vanadium	ppm	ASTM D5185m		<1	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Silicon	ppm	ASTM D5185m	>25	39	---	---
Potassium	ppm	ASTM D5185m	>20	152	---	---
Fuel	%	ASTM D3524	>5	0.5	---	---
Water		WC Method	>0.2	NEG	---	---
Glycol		WC Method		NEG	---	---
Soot %	%	*ASTM D7844	>3	0.3	---	---
Nitration	Abs/cm	*ASTM D7624	>20	10.0	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.5	---	---
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	---	---
Sodium	ppm	ASTM D5185m		10	---	---
Boron	ppm	ASTM D5185m		27	---	---
Barium	ppm	ASTM D5185m		0	---	---
Molybdenum	ppm	ASTM D5185m		16	---	---
Manganese	ppm	ASTM D5185m		5	---	---
Magnesium	ppm	ASTM D5185m		740	---	---
Calcium	ppm	ASTM D5185m		1275	---	---
Phosphorus	ppm	ASTM D5185m		700	---	---
Zinc	ppm	ASTM D5185m		818	---	---
Sulfur	ppm	ASTM D5185m		2534	---	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.8	---	---
Base Number (BN)	mg KOH/g	ASTM D2896	10.3	6.3	---	---
Visc @ 100°C	cSt	ASTM D445	14.3	11.7	---	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RPL0008067 **Received** : 16 Oct 2023  
**Lab Number** : 05979226 **Tested** : 17 Oct 2023  
**Unique Number** : 10696521 **Diagnosed** : 17 Oct 2023 - Don Baldrige  
**Test Package** : FLEET ( Additional Tests: FuelDilution, KV40, PercentFuel )

**RTL PACLEASE - 7017 - Oklahoma City**  
 8700 West I-40  
 Oklahoma City, OK  
 US 73128  
 Contact: TECHNICIAN ACCOUNT  
 catherine.anastasio@wearcheck.com

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)

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F: