



PacLease

# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>ABNORMAL</b>
FLUID CONDITION	<b>ABNORMAL</b>

Machine Id  
**846-4341**

Component  
**Diesel Engine**

Fluid  
**DIESEL ENGINE OIL SAE 15W40 (--- GAL)**

## RECOMMENDATION

We advise that you check the fuel injection system. Resample at the next service interval to monitor.

## WEAR

All component wear rates are normal.

## CONTAMINATION

There is a moderate amount of fuel present in the oil.

## FLUID CONDITION

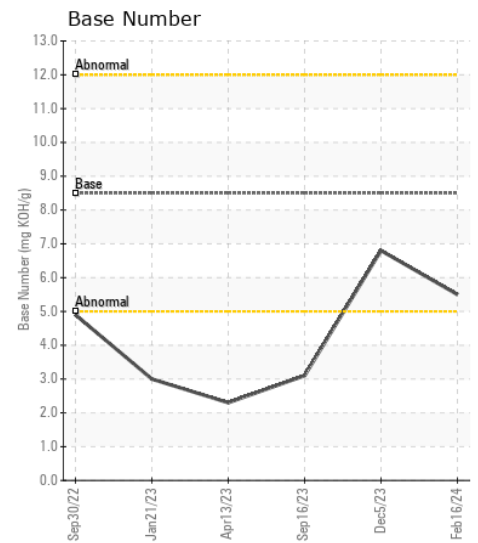
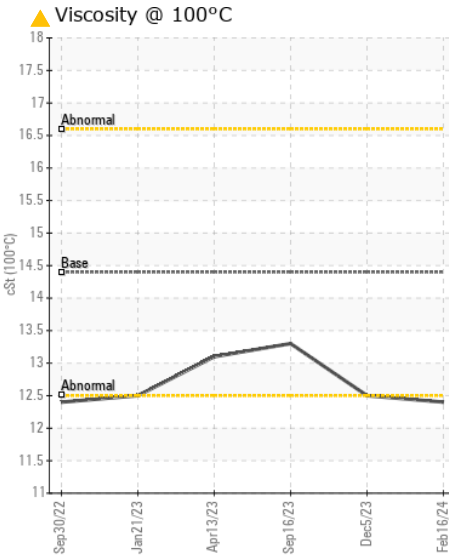
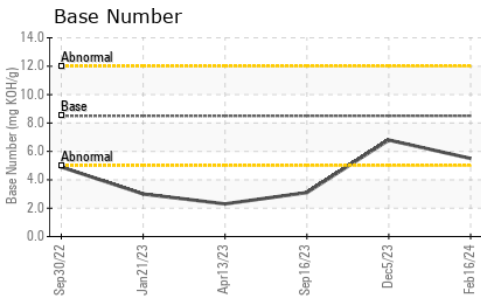
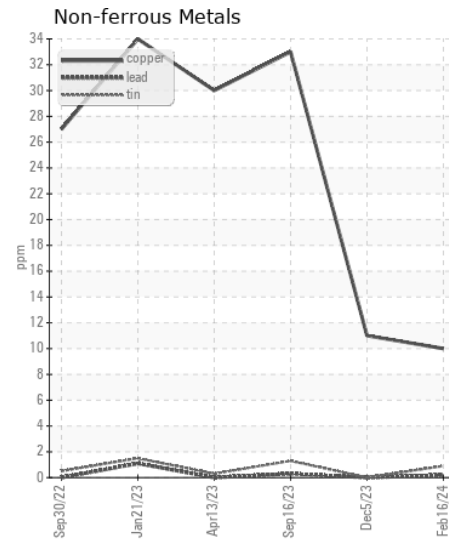
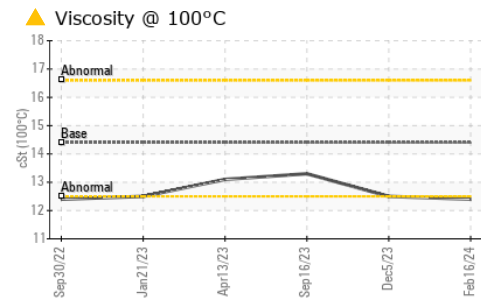
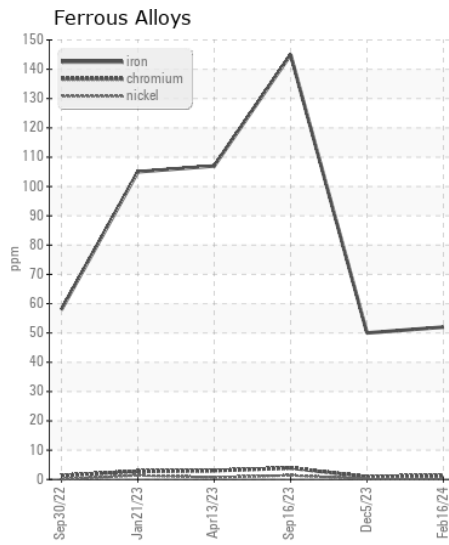
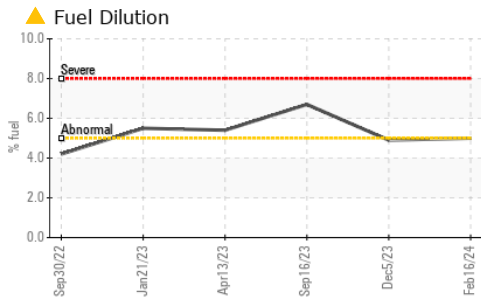
The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>RPL0016068</b>	RPL0016028	RPL0015147
Sample Date		Client Info		<b>16 Feb 2024</b>	05 Dec 2023	16 Sep 2023
Machine Age	hrs	Client Info		<b>119647</b>	0	107595
Oil Age	hrs	Client Info		<b>12052</b>	0	107595
Filter Age	hrs	Client Info		<b>12052</b>	0	107595
Oil Changed		Client Info		<b>N/A</b>	Not Changd	Changed
Filter Changed		Client Info		<b>N/A</b>	Not Changed	Changed
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

Iron	ppm	ASTM D5185m	>100	<b>52</b>	50	▲ 145
Chromium	ppm	ASTM D5185m	>20	<b>1</b>	<1	4
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	1
Titanium	ppm	ASTM D5185m		<b>0</b>	0	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>14</b>	10	28
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	0	<1
Copper	ppm	ASTM D5185m	>330	<b>10</b>	11	33
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	0	1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

Silicon	ppm	ASTM D5185m	>25	<b>14</b>	14	28
Potassium	ppm	ASTM D5185m	>20	<b>29</b>	22	61
Fuel	%	ASTM D3524	>5	<b>▲ 5.0</b>	▲ 4.9	▲ 6.7
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.8</b>	0.6	1.4
Nitration	Abs/cm	*ASTM D7624	>20	<b>12.9</b>	11.5	17.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>27.2</b>	26.0	35.9
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	NEG

Sodium	ppm	ASTM D5185m	>158	<b>5</b>	3	15
Boron	ppm	ASTM D5185m	250	<b>25</b>	35	25
Barium	ppm	ASTM D5185m	10	<b>0</b>	0	2
Molybdenum	ppm	ASTM D5185m	100	<b>43</b>	48	18
Manganese	ppm	ASTM D5185m		<b>1</b>	<1	3
Magnesium	ppm	ASTM D5185m	450	<b>541</b>	576	616
Calcium	ppm	ASTM D5185m	3000	<b>1332</b>	1484	1373
Phosphorus	ppm	ASTM D5185m	1150	<b>643</b>	768	701
Zinc	ppm	ASTM D5185m	1350	<b>848</b>	906	906
Sulfur	ppm	ASTM D5185m	4250	<b>2248</b>	2688	2626
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>30.9</b>	28.5	44.4
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	<b>5.5</b>	6.8	▲ 3.1
Visc @ 100°C	cSt	ASTM D445	14.4	<b>▲ 12.4</b>	12.5	13.3



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RPL0016068  
**Lab Number** : 06105788  
**Unique Number** : 10909285  
**Test Package** : FLEET ( Additional Tests: PercentFuel )

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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)