



PacLease

# OIL ANALYSIS REPORT

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

Machine Id  
**781-190**  
 Component  
**Diesel Engine**  
 Fluid  
**{not provided} (--- LTR)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>RPL06151647</b>	RPL06057315	RPL06009421
Sample Date		Client Info		<b>08 Apr 2024</b>	04 Jan 2024	09 Nov 2023
Machine Age	mls	Client Info		<b>441570</b>	397622	365470
Oil Age	mls	Client Info		<b>43948</b>	66411	34000
Filter Age	mls	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>18</b>	35	16
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	0
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	0	0
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>8</b>	10	7
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	0	<1
Copper	ppm	ASTM D5185m	>330	<b>0</b>	5	3
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	0	0
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

## CONTAMINATION

There is no indication of any contamination in the oil.

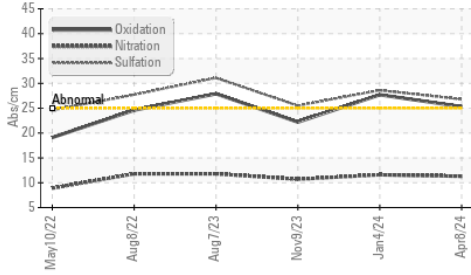
Silicon	ppm	ASTM D5185m	>25	<b>14</b>	10	9
Potassium	ppm	ASTM D5185m	>20	<b>5</b>	12	7
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.6</b>	0.9	0.5
Nitration	Abs/cm	*ASTM D7624	>20	<b>11.3</b>	11.6	10.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>26.8</b>	28.6	25.5
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

## FLUID CONDITION

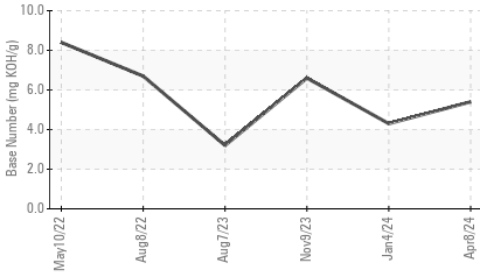
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>0</b>	<1	3
Boron	ppm	ASTM D5185m		<b>75</b>	35	105
Barium	ppm	ASTM D5185m		<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185m		<b>131</b>	134	125
Manganese	ppm	ASTM D5185m		<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185m		<b>709</b>	691	665
Calcium	ppm	ASTM D5185m		<b>1626</b>	1589	1538
Phosphorus	ppm	ASTM D5185m		<b>737</b>	756	708
Zinc	ppm	ASTM D5185m		<b>862</b>	940	904
Sulfur	ppm	ASTM D5185m		<b>2689</b>	2618	2383
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>25.3</b>	27.7	22.2
Base Number (BN)	mg KOH/g	ASTM D2896		<b>5.4</b>	4.3	6.6
Visc @ 100°C	cSt	ASTM D445		<b>14.4</b>	14.5	14.2

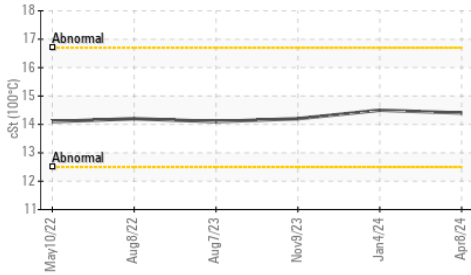
**FT-IR (Direct Trend)**



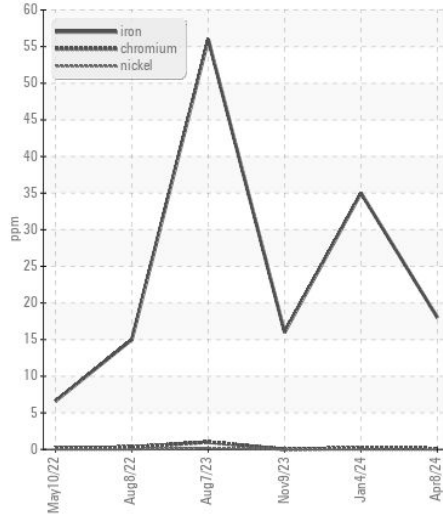
**Base Number**



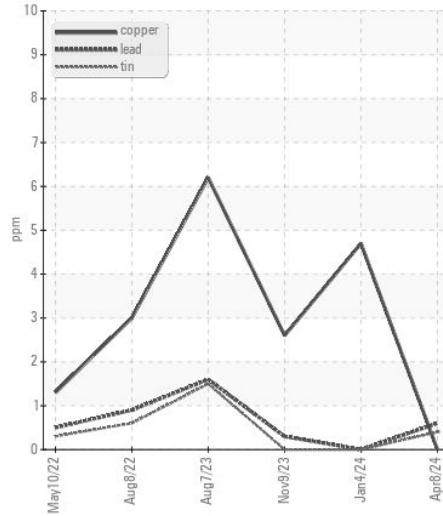
**Viscosity @ 100°C**



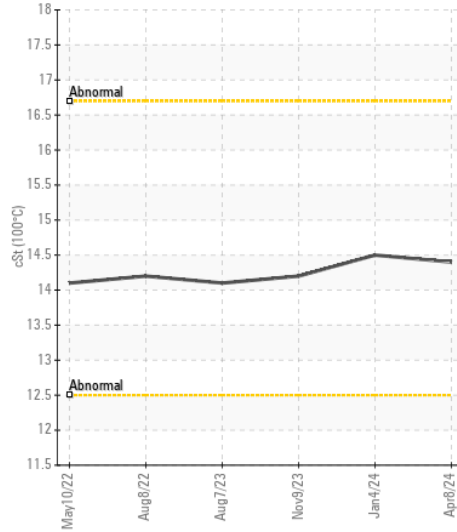
**Ferrous Alloys**



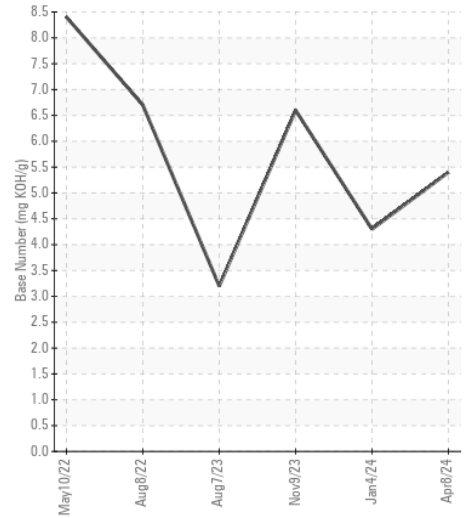
**Non-ferrous Metals**



**Viscosity @ 100°C**



**Base Number**



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RPL06151647  
**Lab Number** : 06151647  
**Unique Number** : 10981725  
**Test Package** : FLEET

**RTL PACLEASE - 7050 - Leasing Tyler**  
 10791 Hwy 69 North  
 Tyler, TX  
 US 75706  
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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)