



PacLease

# OIL ANALYSIS REPORT

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

Machine Id  
**781-191**  
 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>RPL06159615</b>	RPL06009416	RPL05932678
Sample Date		Client Info		<b>17 Apr 2024</b>	09 Nov 2023	16 Aug 2023
Machine Age	mls	Client Info		<b>397608</b>	326003	246788
Oil Age	mls	Client Info		<b>85000</b>	66000	28000
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>35</b>	22	13
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	0
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>7</b>	5	<1
Lead	ppm	ASTM D5185m	>40	<b>1</b>	<1	0
Copper	ppm	ASTM D5185m	>330	<b>2</b>	3	2
Tin	ppm	ASTM D5185m	>15	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	0
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.

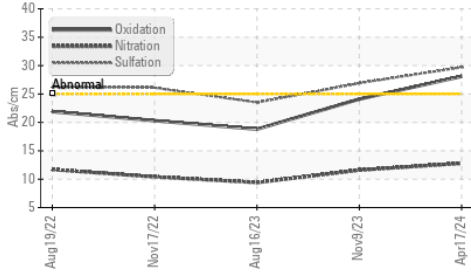
Silicon	ppm	ASTM D5185m	>25	<b>13</b>	14	11
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	3	4
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>1</b>	0.8	0.4
Nitration	Abs/cm	*ASTM D7624	>20	<b>12.8</b>	11.6	9.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>29.7</b>	26.9	23.5
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

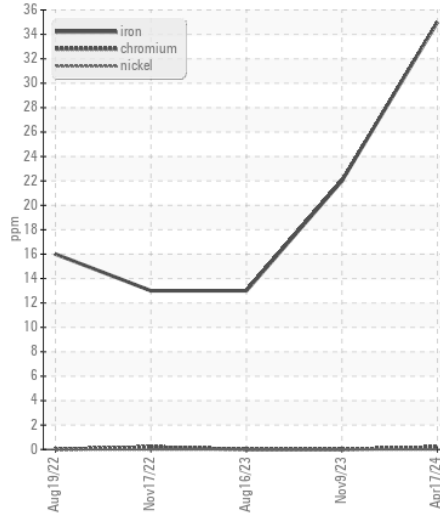
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>2</b>	4	0
Boron	ppm	ASTM D5185m		<b>33</b>	53	168
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	2
Molybdenum	ppm	ASTM D5185m		<b>139</b>	128	129
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>770</b>	677	617
Calcium	ppm	ASTM D5185m		<b>1866</b>	1644	1606
Phosphorus	ppm	ASTM D5185m		<b>736</b>	662	709
Zinc	ppm	ASTM D5185m		<b>963</b>	853	847
Sulfur	ppm	ASTM D5185m		<b>3137</b>	2392	2433
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>28.1</b>	24.1	18.8
Base Number (BN)	mg KOH/g	ASTM D2896		<b>4.6</b>	5.7	7.2
Visc @ 100°C	cSt	ASTM D445		<b>14.7</b>	14.1	14.0

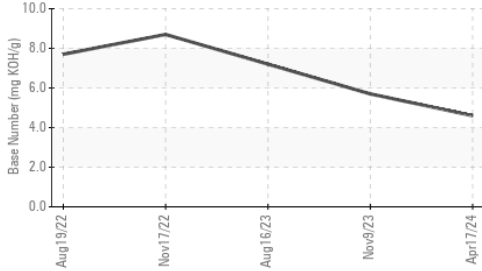
**FT-IR (Direct Trend)**



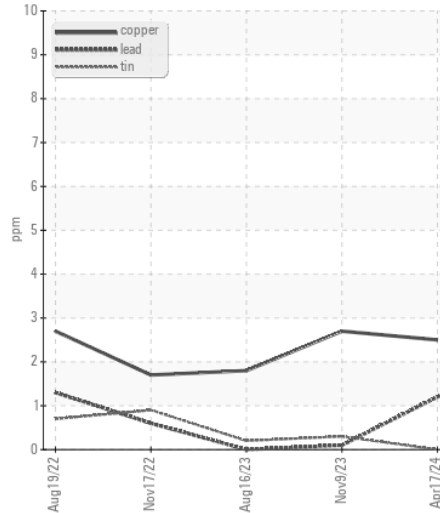
**Ferrous Alloys**



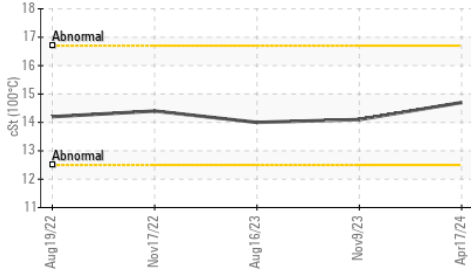
**Base Number**



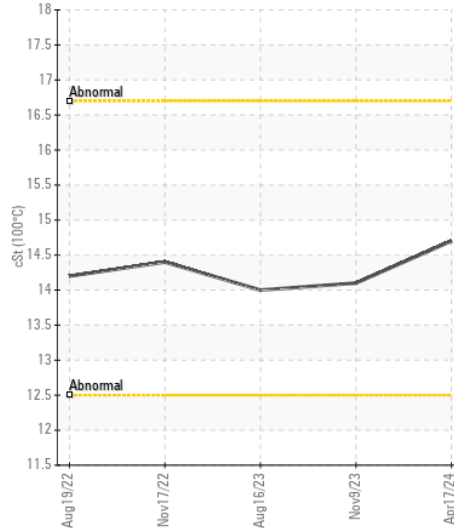
**Non-ferrous Metals**



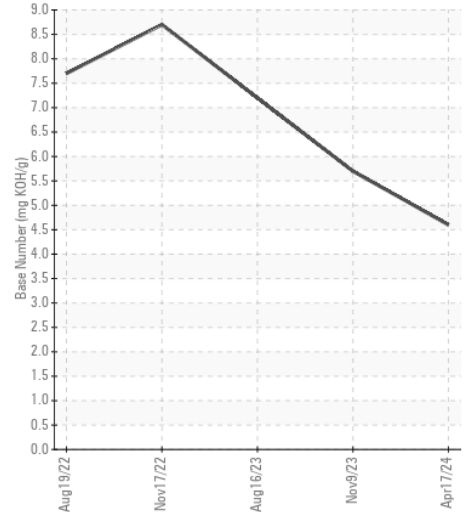
**Viscosity @ 100°C**



**Viscosity @ 100°C**



**Base Number**



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RPL06159615  
**Lab Number** : 06159615  
**Unique Number** : 10995038  
**Test Package** : FLEET

**RTL PACLEASE - 7050 -Leasing Tyler**  
 10791 Hwy 69 North  
 Tyler, TX  
 US 75706  
 Contact: Justin Cooper  
 CooperJ1@RushEnterprises.Com  
 T: (903)405-3000  
 F:

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)