



PacLease

# OIL ANALYSIS REPORT

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

Machine Id  
**8464237**  
 Component  
**Diesel Engine**  
 Fluid  
**DIESEL ENGINE OIL SAE 15W40 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>RPL0020564</b>	RPL0018063	RPL0009308
Sample Date		Client Info		<b>18 Jun 2024</b>	07 Mar 2024	17 Jan 2023
Machine Age	hrs	Client Info		<b>616</b>	365	0
Oil Age	hrs	Client Info		<b>616</b>	0	34796
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changd</b>	Changed	Changed
Filter Changed		Client Info		<b>Not Changd</b>	Changed	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>60</b>	8	75
Chromium	ppm	ASTM D5185m	>20	<b>1</b>	<1	2
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	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>19</b>	2	23
Lead	ppm	ASTM D5185m	>40	<b>0</b>	<1	0
Copper	ppm	ASTM D5185m	>330	<b>1</b>	1	2
Tin	ppm	ASTM D5185m	>15	<b>0</b>	1	0
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.

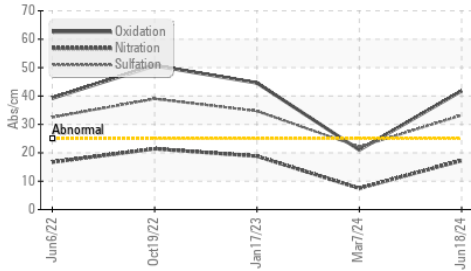
Silicon	ppm	ASTM D5185m	>25	<b>9</b>	8	8
Potassium	ppm	ASTM D5185m	>20	<b>37</b>	4	38
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.6</b>	0.2	1.2
Nitration	Abs/cm	*ASTM D7624	>20	<b>17.3</b>	7.5	18.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>33.2</b>	22.1	34.7
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

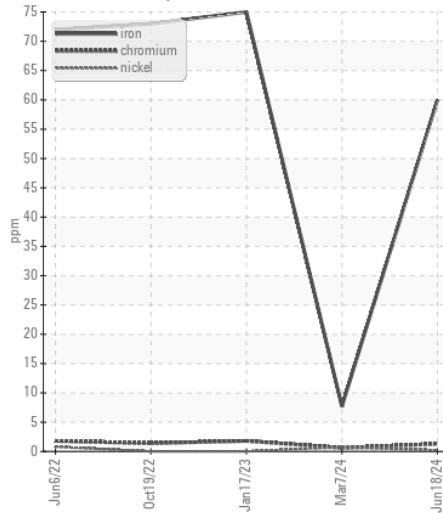
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>158	<b>6</b>	0	2
Boron	ppm	ASTM D5185m	250	<b>49</b>	48	43
Barium	ppm	ASTM D5185m	10	<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185m	100	<b>82</b>	44	63
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	1
Magnesium	ppm	ASTM D5185m	450	<b>689</b>	506	632
Calcium	ppm	ASTM D5185m	3000	<b>1914</b>	1691	2039
Phosphorus	ppm	ASTM D5185m	1150	<b>937</b>	856	883
Zinc	ppm	ASTM D5185m	1350	<b>1152</b>	940	1084
Sulfur	ppm	ASTM D5185m	4250	<b>2663</b>	2739	2874
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>41.8</b>	21.0	44.6
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	<b>4.8</b>	10.0	5.1
Visc @ 100°C	cSt	ASTM D445	14.4	<b>14.7</b>	13.3	15.1

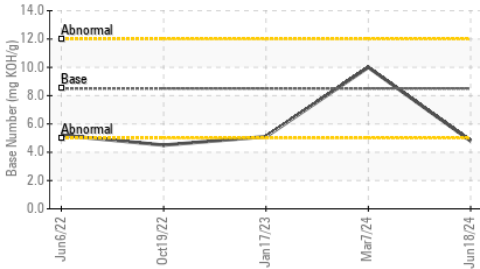
**FT-IR (Direct Trend)**



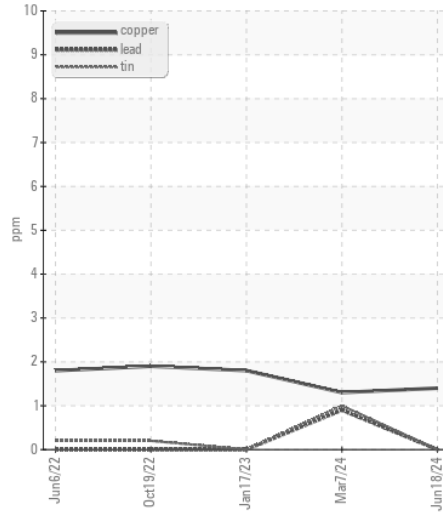
**Ferrous Alloys**



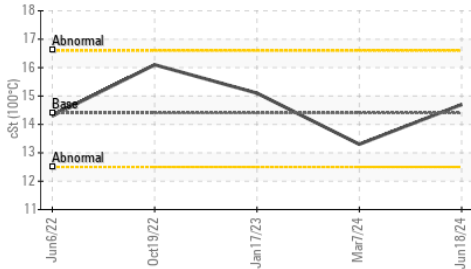
**Base Number**



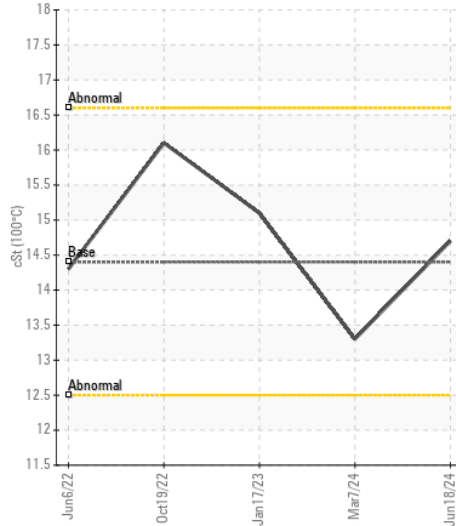
**Non-ferrous Metals**



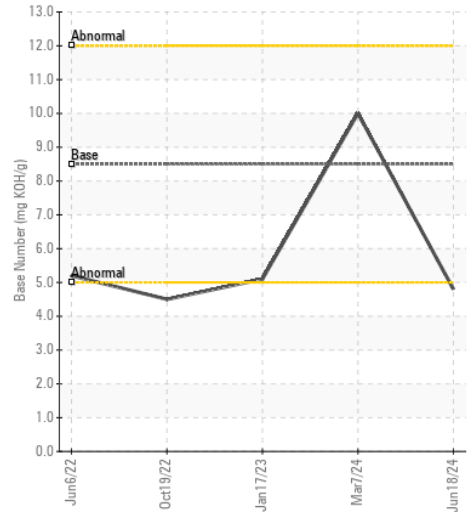
**Viscosity @ 100°C**



**Viscosity @ 100°C**



**Base Number**



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513

**Sample No.** : RPL0020564

**Lab Number** : 06227023

**Unique Number** : 11110516

**Test Package** : FLEET

**Received** : 03 Jul 2024

**Tested** : 03 Jul 2024

**Diagnosed** : 05 Jul 2024 - Don Baldridge

**RTL PACLEASE - 7007 - Fontana**

3121 South Riverside

Bloomington, CA

US 92316

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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)