



PacLease

# OIL ANALYSIS REPORT

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

Machine Id  
**8464249**  
 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>RPL0021989</b>	RPL0016133	RPL0015068
Sample Date		Client Info		<b>26 Jun 2024</b>	02 Nov 2023	23 Aug 2023
Machine Age	mls	Client Info		<b>351152</b>	0	318032
Oil Age	mls	Client Info		<b>0</b>	0	11000
Filter Age	mls	Client Info		<b>0</b>	0	11000
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Changed
Filter Changed		Client Info		<b>Not Changd</b>	Not Changd	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>19</b>	7	27
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>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>5</b>	2	7
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	1	2
Copper	ppm	ASTM D5185m	>330	<b>4</b>	2	4
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

## CONTAMINATION

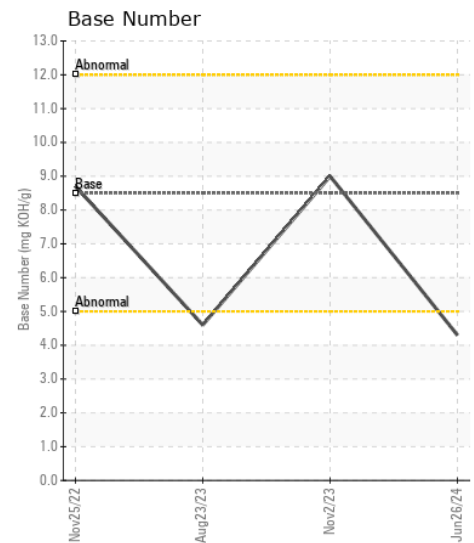
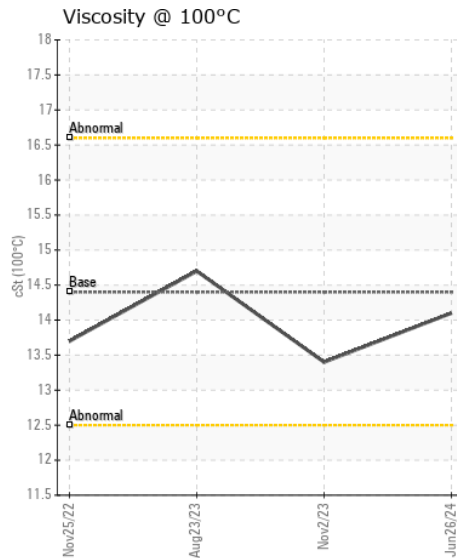
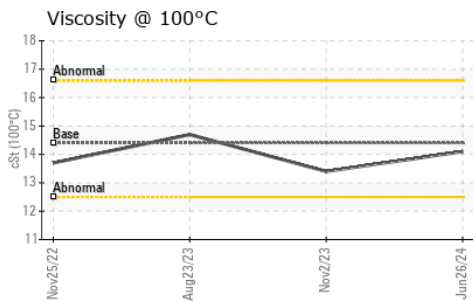
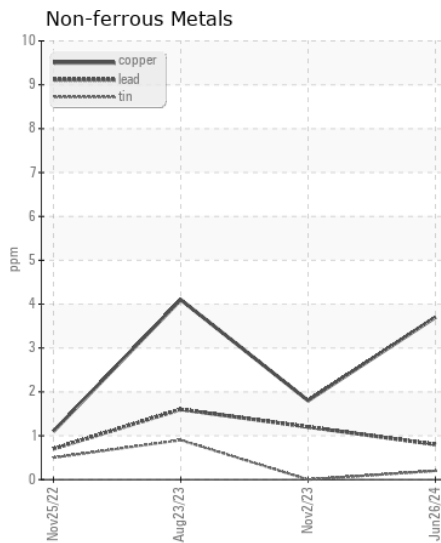
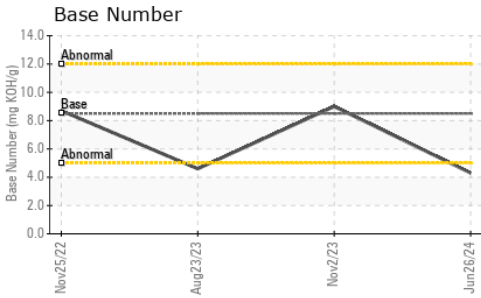
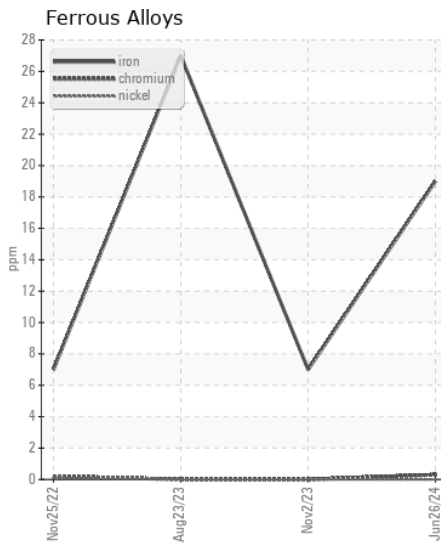
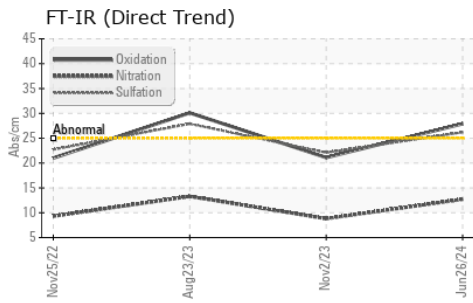
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>9</b>	8	8
Potassium	ppm	ASTM D5185m	>20	<b>6</b>	2	6
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>0.5</b>	0.2	0.7
Nitration	Abs/cm	*ASTM D7624	>20	<b>12.7</b>	8.8	13.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>26.2</b>	22.1	27.9
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

## 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>4</b>	3	8
Boron	ppm	ASTM D5185m	250	<b>27</b>	47	37
Barium	ppm	ASTM D5185m	10	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	100	<b>66</b>	62	66
Manganese	ppm	ASTM D5185m		<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185m	450	<b>681</b>	594	572
Calcium	ppm	ASTM D5185m	3000	<b>1778</b>	1590	2052
Phosphorus	ppm	ASTM D5185m	1150	<b>912</b>	823	862
Zinc	ppm	ASTM D5185m	1350	<b>1095</b>	982	1096
Sulfur	ppm	ASTM D5185m	4250	<b>2870</b>	2770	3235
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>27.9</b>	21.1	30.1
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	<b>4.3</b>	9.0	4.6
Visc @ 100°C	cSt	ASTM D445	14.4	<b>14.1</b>	13.4	14.7



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RPL0021989 **Received** : 03 Jul 2024  
**Lab Number** : 06227031 **Tested** : 03 Jul 2024  
**Unique Number** : 11110524 **Diagnosed** : 05 Jul 2024 - Don Baldrige  
**Test Package** : FLEET

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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)