



PacLease

# OIL ANALYSIS REPORT

WEAR  
CONTAMINATION  
FLUID CONDITION

ATTENTION  
ABNORMAL  
ATTENTION

Machine Id  
**8465096**

Component  
**Diesel Engine**

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

## RECOMMENDATION

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Resample at the next service interval to monitor.

## WEAR

All component wear rates are normal.

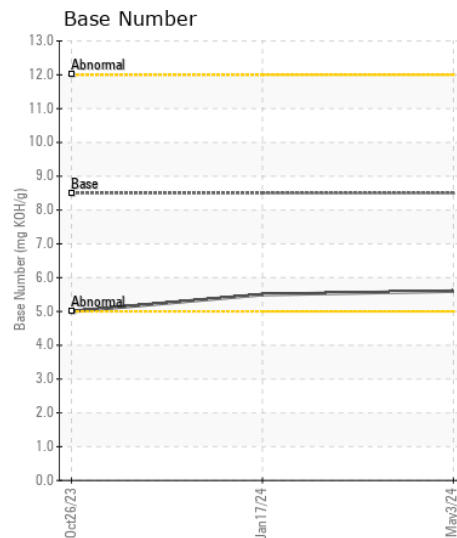
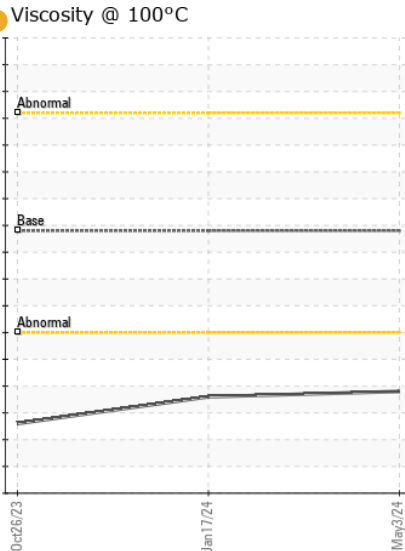
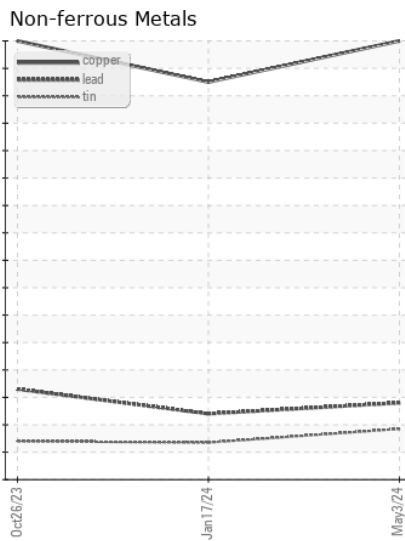
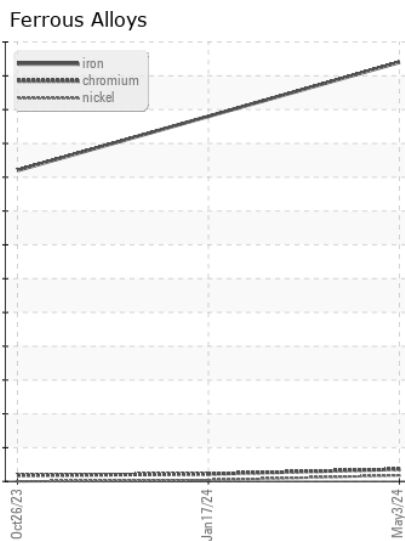
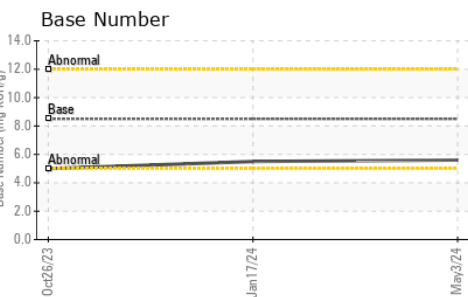
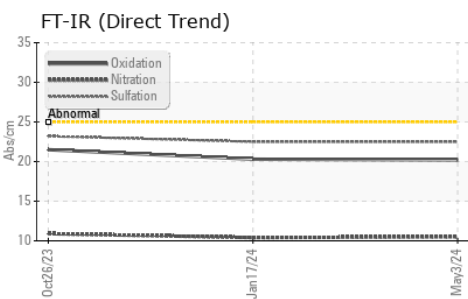
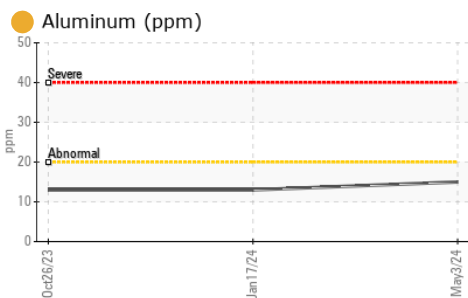
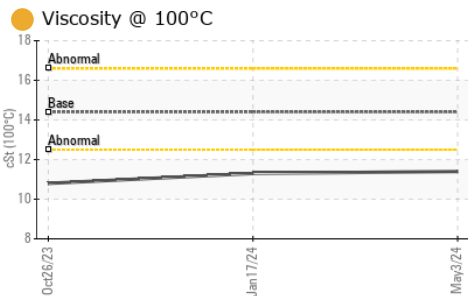
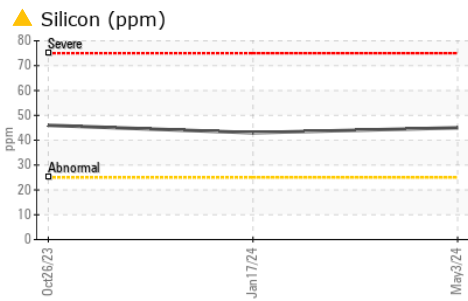
## CONTAMINATION

Sodium and/or potassium levels are high. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. Test for glycol is negative.

## FLUID CONDITION

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>RPL0018145</b>	RPL0016044	RPL0016129
Sample Date		Client Info		<b>03 May 2024</b>	17 Jan 2024	26 Oct 2023
Machine Age	mls	Client Info		<b>0</b>	19813	0
Oil Age	mls	Client Info		<b>20101</b>	19813	19355
Filter Age	mls	Client Info		<b>0</b>	19813	0
Oil Changed		Client Info		<b>Changed</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>N/A</b>	Not Changd	N/A
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>100	<b>62</b>	54	46
Chromium	ppm	ASTM D5185m	>20	<b>2</b>	1	<1
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	>3	<b>2</b>	<1	0
Aluminum	ppm	ASTM D5185m	>20	<b>15</b>	13	13
Lead	ppm	ASTM D5185m	>40	<b>6</b>	5	7
Copper	ppm	ASTM D5185m	>330	<b>32</b>	29	32
Tin	ppm	ASTM D5185m	>15	<b>4</b>	3	3
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
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>45</b>	43	46
Potassium	ppm	ASTM D5185m	>20	<b>61</b>	52	54
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	3.2
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol	%	*ASTM D2982		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.2</b>	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	<b>10.5</b>	10.4	10.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>22.5</b>	22.5	23.2
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>6</b>	5	6
Boron	ppm	ASTM D5185m	250	<b>40</b>	42	26
Barium	ppm	ASTM D5185m	10	<b>3</b>	5	6
Molybdenum	ppm	ASTM D5185m	100	<b>27</b>	23	11
Manganese	ppm	ASTM D5185m		<b>5</b>	5	5
Magnesium	ppm	ASTM D5185m	450	<b>743</b>	736	770
Calcium	ppm	ASTM D5185m	3000	<b>1367</b>	1276	1309
Phosphorus	ppm	ASTM D5185m	1150	<b>650</b>	702	732
Zinc	ppm	ASTM D5185m	1350	<b>869</b>	813	866
Sulfur	ppm	ASTM D5185m	4250	<b>2924</b>	2545	2744
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>20.2</b>	20.3	21.5
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	<b>5.6</b>	5.5	5.0
Visc @ 100°C	cSt	ASTM D445	14.4	<b>11.4</b>	11.3	10.8



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RPL0018145 **Received** : 24 May 2024  
**Lab Number** : 06190291 **Tested** : 30 May 2024  
**Unique Number** : 11047043 **Diagnosed** : 30 May 2024 - Jonathan Hester  
**Test Package** : FLEET ( Additional Tests: Glycol )

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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)