



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

Machine Id  
**NOT GIVEN LF0001369**

Component  
**Diesel Engine**

Fluid  
**SERVICE PRO 15W40 (--- GAL)**

### RECOMMENDATION

We advise that you check for the source of the coolant leak. Check for low coolant level. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LF0001369</b>	---	---
Sample Date		Client Info		<b>06 Apr 2023</b>	---	---
Machine Age	mls	Client Info		<b>1000000</b>	---	---
Oil Age	mls	Client Info		<b>3000</b>	---	---
Filter Age	mls	Client Info		<b>3000</b>	---	---
Oil Changed		Client Info		<b>N/A</b>	---	---
Filter Changed		Client Info		<b>N/A</b>	---	---
Sample Status				<b>ABNORMAL</b>	---	---

### WEAR

Bearing and/or bushing wear is indicated.

Iron	ppm	ASTM D5185m	>100	<b>4</b>	---	---
Chromium	ppm	ASTM D5185m	>20	<b>0</b>	---	---
Nickel	ppm	ASTM D5185m	>4	<b>1</b>	---	---
Titanium	ppm	ASTM D5185m		<b>0</b>	---	---
Silver	ppm	ASTM D5185m	>3	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m	>20	<b>&lt;1</b>	---	---
Lead	ppm	ASTM D5185m	>40	<b>▲ 43</b>	---	---
Copper	ppm	ASTM D5185m	>330	<b>▲ 701</b>	---	---
Tin	ppm	ASTM D5185m	>15	<b>1</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	---	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---

### CONTAMINATION

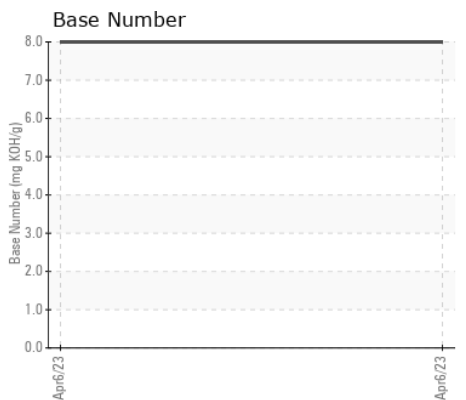
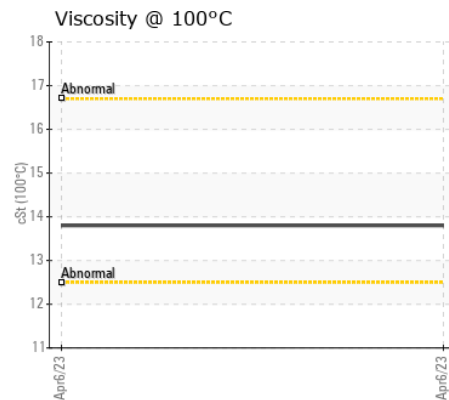
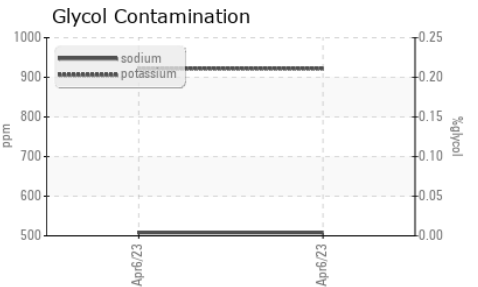
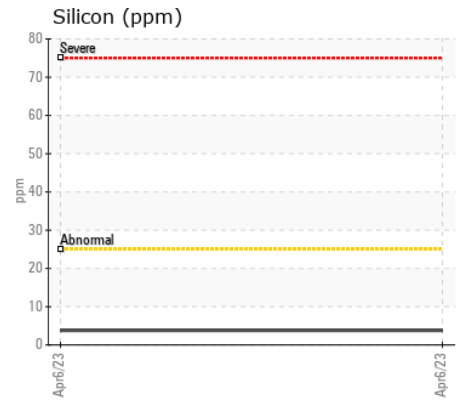
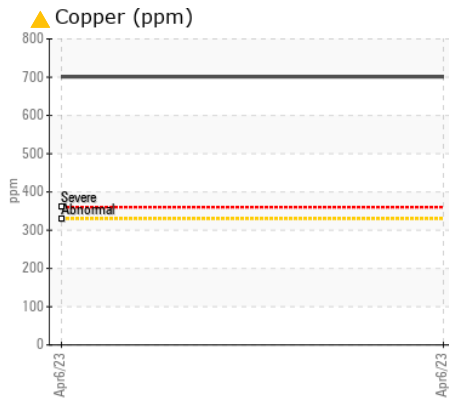
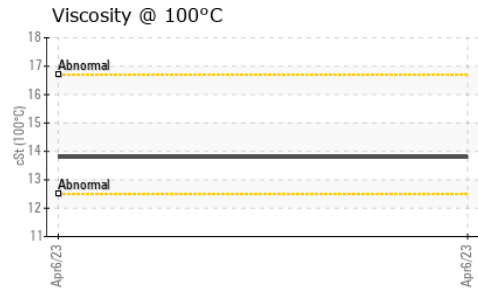
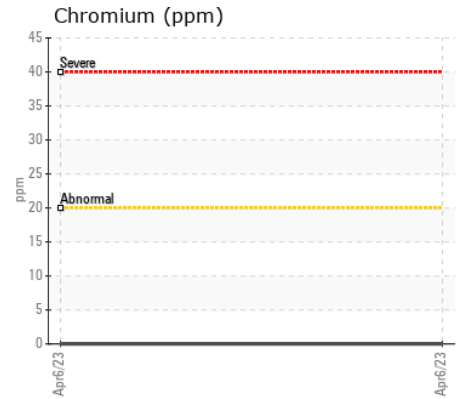
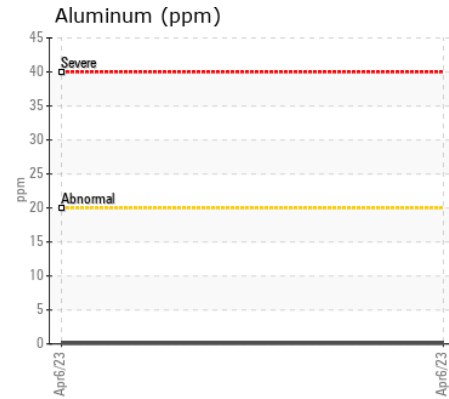
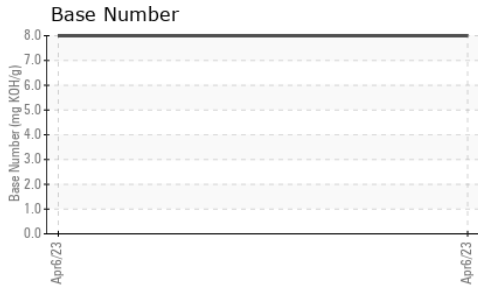
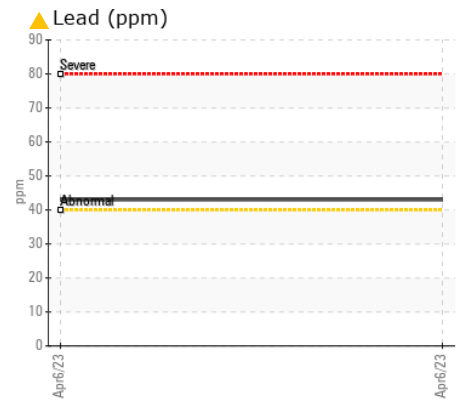
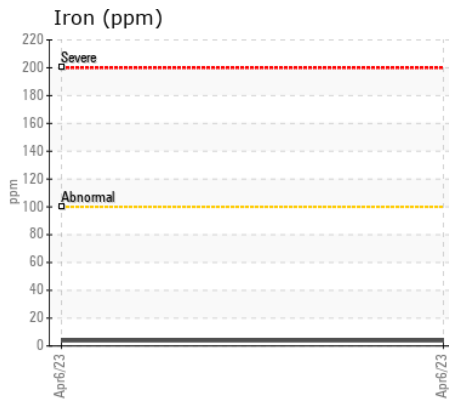
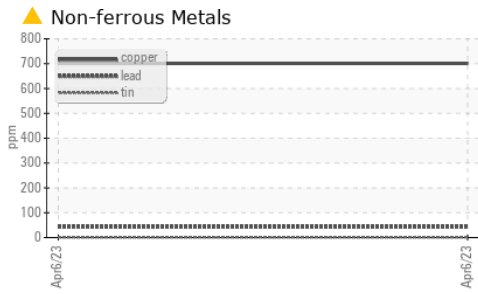
Sodium and/or potassium levels are high. There is a high concentration of glycol present in the oil. No evidence of fuel present in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>4</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>▲ 922</b>	---	---
Fuel		WC Method	>5	<b>&lt;1.0</b>	---	---
Water		WC Method	>0.2	<b>NEG</b>	---	---
Glycol	%	*ASTM D2982		<b>NEG</b>	---	---
Soot %	%	*ASTM D7844	>3	<b>0.1</b>	---	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.5</b>	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.0</b>	---	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	---	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	---	---

### FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185m		<b>▲ 508</b>	---	---
Boron	ppm	ASTM D5185m		<b>21</b>	---	---
Barium	ppm	ASTM D5185m		<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185m		<b>68</b>	---	---
Manganese	ppm	ASTM D5185m		<b>1</b>	---	---
Magnesium	ppm	ASTM D5185m		<b>253</b>	---	---
Calcium	ppm	ASTM D5185m		<b>387</b>	---	---
Phosphorus	ppm	ASTM D5185m		<b>821</b>	---	---
Zinc	ppm	ASTM D5185m		<b>635</b>	---	---
Sulfur	ppm	ASTM D5185m		<b>2600</b>	---	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>14.3</b>	---	---
Base Number (BN)	mg KOH/g	ASTM D2896		<b>8.0</b>	---	---
Visc @ 100°C	cSt	ASTM D445		<b>13.8</b>	---	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LF0001369 **Received** : 10 Apr 2023  
**Lab Number** : 05815894 **Tested** : 13 Apr 2023  
**Unique Number** : 10418686 **Diagnosed** : 13 Apr 2023 - Jonathan Hester  
**Test Package** : MOB 1 ( Additional Tests: Glycol, TBN )

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)

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