



OIL ANALYSIS REPORT

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

Area  
**Store 9 - Marietta**

Machine Id  
**PRINOTH T14R 935310047**

Component  
**Diesel Engine**

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

**RECOMMENDATION**

We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LEC0051631</b>	LEC0039162	LEC0020305
Sample Date		Client Info		<b>10 Jun 2024</b>	27 Jan 2023	05 May 2021
Machine Age	hrs	Client Info		<b>3136</b>	2483	1678
Oil Age	hrs	Client Info		<b>653</b>	805	1120
Filter Age	hrs	Client Info		<b>653</b>	805	1120
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>ABNORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>62</b>	15	61
Chromium	ppm	ASTM D5185m	>20	<b>2</b>	<1	2
Nickel	ppm	ASTM D5185m	>4	<b>1</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>25</b>	6	19
Lead	ppm	ASTM D5185m	>40	<b>0</b>	1	<1
Copper	ppm	ASTM D5185m	>330	<b>8</b>	3	32
Tin	ppm	ASTM D5185m	>15	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

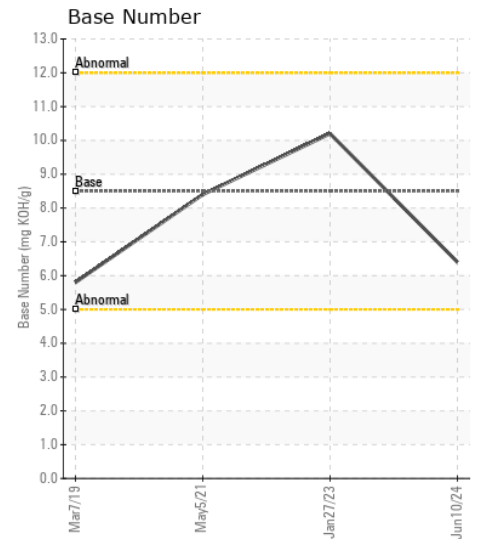
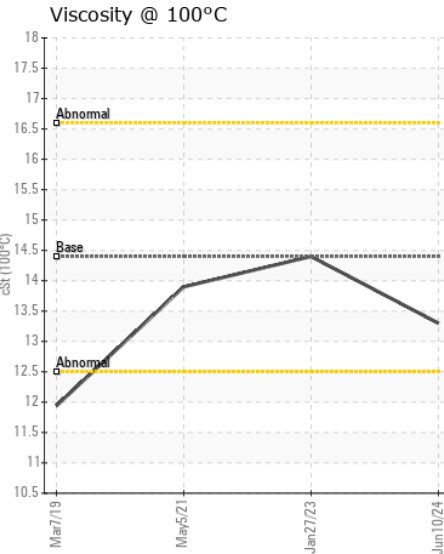
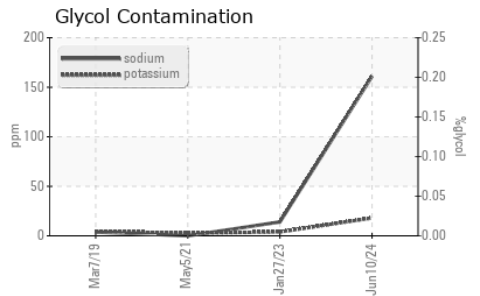
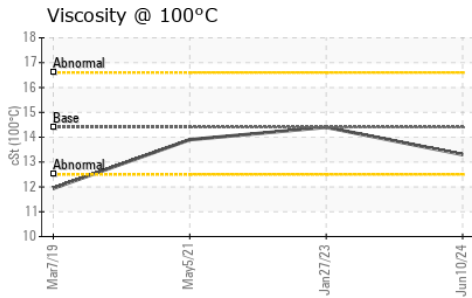
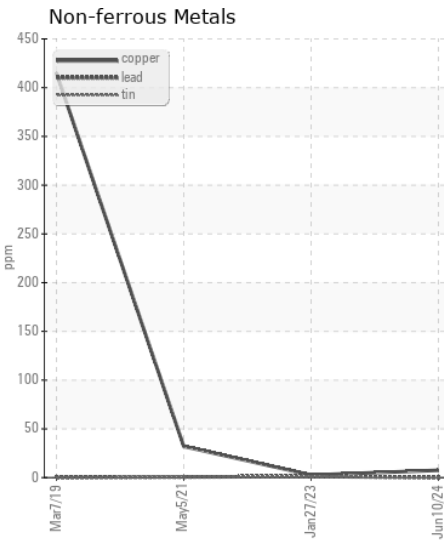
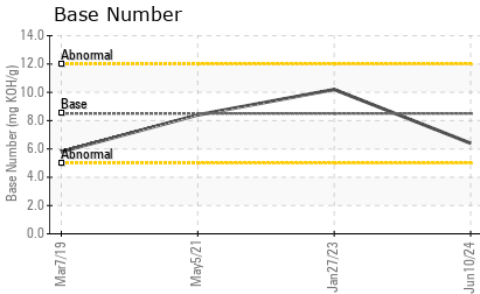
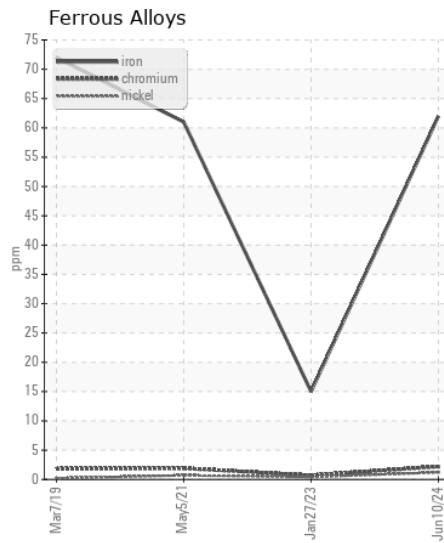
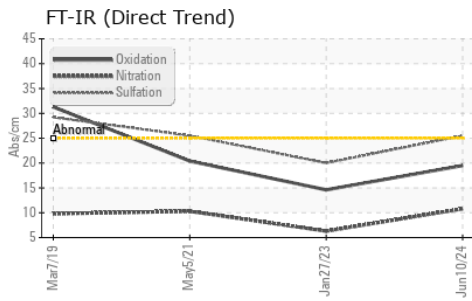
Sodium and/or potassium levels are high.

Silicon	ppm	ASTM D5185m	>120	<b>11</b>	7	9
Potassium	ppm	ASTM D5185m	>20	<b>▲ 18</b>	4	3
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol	%	*ASTM D2982		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.5</b>	0.1	0.4
Nitration	Abs/cm	*ASTM D7624	>20	<b>10.8</b>	6.3	10.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>25.5</b>	20.0	25.5
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.

Sodium	ppm	ASTM D5185m	>158	<b>▲ 161</b>	14	0
Boron	ppm	ASTM D5185m	250	<b>32</b>	248	153
Barium	ppm	ASTM D5185m	10	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	100	<b>187</b>	230	192
Manganese	ppm	ASTM D5185m		<b>2</b>	<1	1
Magnesium	ppm	ASTM D5185m	450	<b>580</b>	791	612
Calcium	ppm	ASTM D5185m	3000	<b>1656</b>	1640	1605
Phosphorus	ppm	ASTM D5185m	1150	<b>818</b>	949	878
Zinc	ppm	ASTM D5185m	1350	<b>1035</b>	1179	1097
Sulfur	ppm	ASTM D5185m	4250	<b>3523</b>	3914	2605
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>19.5</b>	14.6	20.4
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	<b>6.4</b>	10.2	8.4
Visc @ 100°C	cSt	ASTM D445	14.4	<b>13.3</b>	14.4	13.9



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0051631 **Received** : 17 Jun 2024  
**Lab Number** : 06211421 **Tested** : 18 Jun 2024  
**Unique Number** : 11084285 **Diagnosed** : 18 Jun 2024 - Jonathan Hester  
**Test Package** : CONST ( Additional Tests: Glycol, TBN )

**LESLIE EQUIPMENT COMPANY**  
 105 TENNIS CENTER DR.  
 MARIETTA, OH  
 US 45750-9765  
 Contact: LEANNE KENDALL  
 KendalLeanne@lec1.com

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)

T: (740)373-5570