



Machine Id

**LETORNEAU 120**

Component

**Hoisting Gearbox**

Fluid

**SCHAEFFER 209 MOLY UNIVERSAL GEARLUBE SAE 140 (--- GAL)**

**DIAGNOSIS**

**▲ Recommendation**

Resample at the next service interval to monitor.

**Wear**

All component wear rates are normal.

**▲ Contamination**

There is a high amount of particulates present in the oil.

**Fluid Condition**

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

**SAMPLE INFORMATION**

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PE0001914</b>	---	---
Sample Date	Client Info		<b>15 Feb 2024</b>	---	---
Machine Age	hrs	Client Info	<b>0</b>	---	---
Oil Age	hrs	Client Info	<b>0</b>	---	---
Oil Changed	Client Info		<b>N/A</b>	---	---
Sample Status			<b>ABNORMAL</b>	---	---

**CONTAMINATION**

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	<b>NEG</b>	---	---

**WEAR METALS**

	method	limit/base	current	history1	history2
PQ	ASTM D8184		<b>28</b>	---	---
Iron	ppm	ASTM D5185m >150	<b>53</b>	---	---
Chromium	ppm	ASTM D5185m >10	<b>2</b>	---	---
Nickel	ppm	ASTM D5185m >10	<b>&lt;1</b>	---	---
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	---	---
Silver	ppm	ASTM D5185m	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m >25	<b>8</b>	---	---
Lead	ppm	ASTM D5185m >100	<b>1</b>	---	---
Copper	ppm	ASTM D5185m >50	<b>1</b>	---	---
Tin	ppm	ASTM D5185m >10	<b>&lt;1</b>	---	---
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	---	---
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	---	---

**ADDITIVES**

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>211</b>	---	---
Barium	ppm	ASTM D5185m	<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185m	<b>10</b>	---	---
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	---	---
Magnesium	ppm	ASTM D5185m	<b>4</b>	---	---
Calcium	ppm	ASTM D5185m	<b>12</b>	---	---
Phosphorus	ppm	ASTM D5185m	<b>901</b>	---	---
Zinc	ppm	ASTM D5185m	<b>6</b>	---	---
Sulfur	ppm	ASTM D5185m	<b>26516</b>	---	---

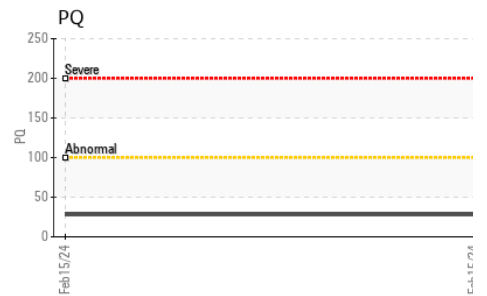
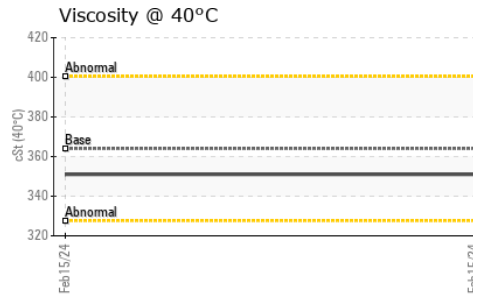
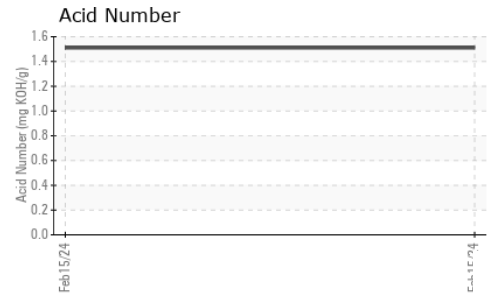
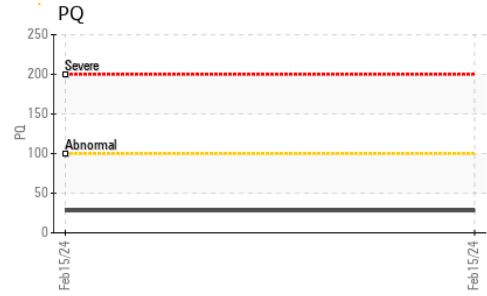
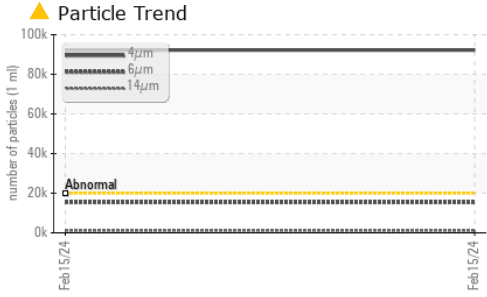
**CONTAMINANTS**

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	<b>22</b>	---	---
Sodium	ppm	ASTM D5185m	<b>1</b>	---	---
Potassium	ppm	ASTM D5185m >20	<b>1</b>	---	---

**FLUID CLEANLINESS**

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	<b>▲ 92207</b>	---	---
Particles >6µm	ASTM D7647	>5000	<b>▲ 15353</b>	---	---
Particles >14µm	ASTM D7647	>640	<b>● 1108</b>	---	---
Particles >21µm	ASTM D7647	>160	<b>▲ 334</b>	---	---
Particles >38µm	ASTM D7647	>40	<b>12</b>	---	---
Particles >71µm	ASTM D7647	>10	<b>0</b>	---	---
Oil Cleanliness	ISO 4406 (c)	>21/19/16	<b>▲ 24/21/17</b>	---	---

# OIL ANALYSIS REPORT



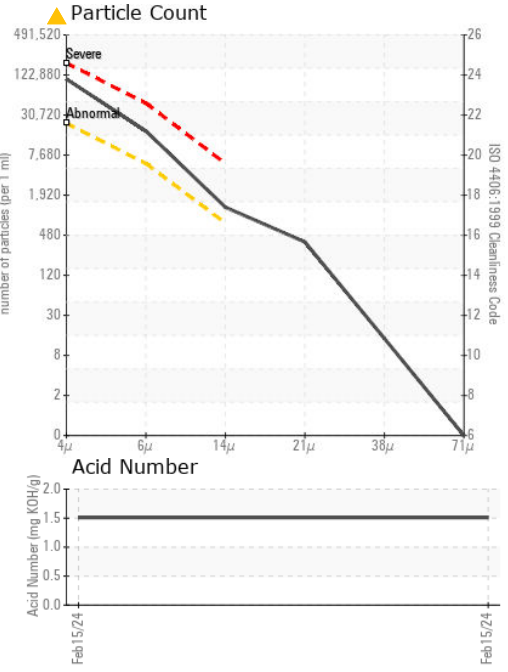
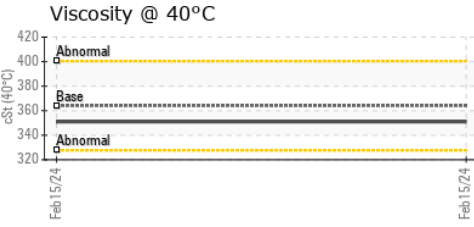
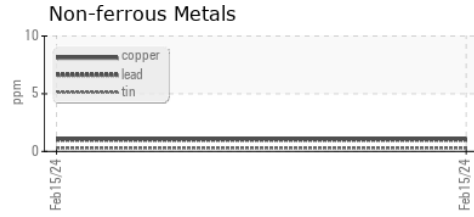
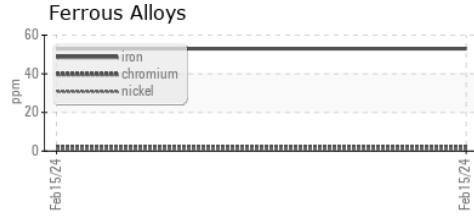
FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>1.51</b>	---	---

VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	---	---
Precipitate	scalar	*Visual	NONE	---	---
Silt	scalar	*Visual	NONE	---	---
Debris	scalar	*Visual	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	---	---
Appearance	scalar	*Visual	NORML	---	---
Odor	scalar	*Visual	NORML	---	---
Emulsified Water	scalar	*Visual	>0.1	---	---
Free Water	scalar	*Visual	NEG	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	364	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PE0001914      **Received** : 04 Apr 2024  
**Lab Number** : **06138439**      **Tested** : 09 Apr 2024  
**Unique Number** : 10963247      **Diagnosed** : 09 Apr 2024 - Angela Borella  
**Test Package** : CONST ( Additional Tests: ICP, KV40, PQ, PrtCount, SCREEN )  
 To discuss this sample report, contact Customer Service at 1-800-237-1369.

**ALTA FOREST PRODUCTS**  
 7127 US HWY 101  
 AMANDA PARK, WA  
 US 98526  
 Contact: ROGER TJEPKEMA  
 Rogertjepkema@altafp.com

\* - 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)