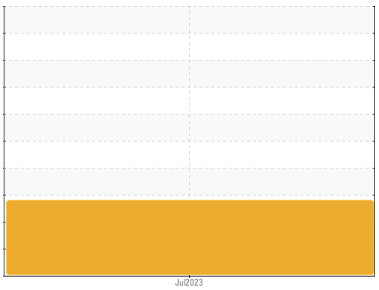
OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY

Machine Id
LETORNEAU 115
Component
Front Right Final Drive
Fluid
SCHAEFFER 209 MOLY UNIVERSAL GEARLUBE SAE 140 (--- GAL)

DIAGNOSIS

Recommendation
Check seals and/or filters for points of contaminant entry. 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. Moderate concentration of visible dirt/debris present in the oil.

Fluid Condition
The oil viscosity is lower than normal. Confirm oil type.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**PE0002364**	---	---
Sample Date		Client Info		**27 Jul 2023**	---	---
Machine Age	hrs	Client Info		**2893**	---	---
Oil Age	hrs	Client Info		**0**	---	---
Oil Changed		Client Info		**Not Changd**	---	---
Sample Status				**ABNORMAL**	---	---

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.2	**NEG**	---	---

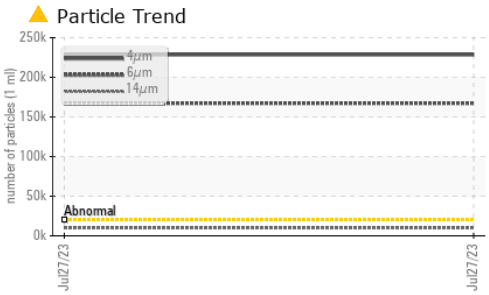
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		**90**	---	---
Iron	ppm	ASTM D5185m	>500	**167**	---	---
Chromium	ppm	ASTM D5185m	>10	**1**	---	---
Nickel	ppm	ASTM D5185m	>10	**4**	---	---
Titanium	ppm	ASTM D5185m		**<1**	---	---
Silver	ppm	ASTM D5185m		**0**	---	---
Aluminum	ppm	ASTM D5185m	>25	**15**	---	---
Lead	ppm	ASTM D5185m	>25	**0**	---	---
Copper	ppm	ASTM D5185m	>50	**7**	---	---
Tin	ppm	ASTM D5185m	>10	**<1**	---	---
Vanadium	ppm	ASTM D5185m		**<1**	---	---
Cadmium	ppm	ASTM D5185m		**0**	---	---

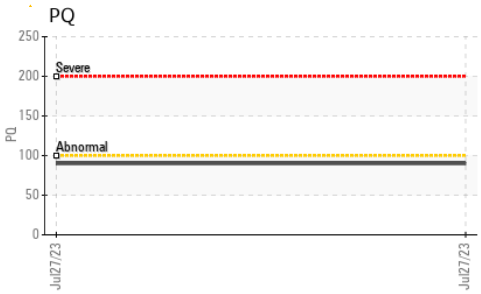
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**313**	---	---
Barium	ppm	ASTM D5185m		**0**	---	---
Molybdenum	ppm	ASTM D5185m		**42**	---	---
Manganese	ppm	ASTM D5185m		**3**	---	---
Magnesium	ppm	ASTM D5185m		**2**	---	---
Calcium	ppm	ASTM D5185m		**24**	---	---
Phosphorus	ppm	ASTM D5185m		**882**	---	---
Zinc	ppm	ASTM D5185m		**4**	---	---
Sulfur	ppm	ASTM D5185m		**20234**	---	---

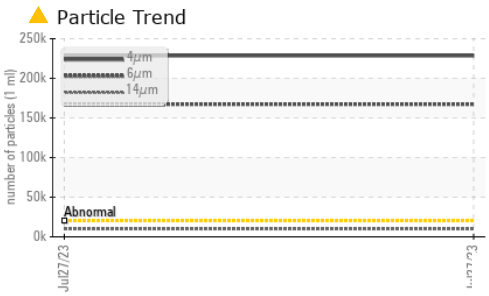
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	**56**	---	---
Sodium	ppm	ASTM D5185m		**2**	---	---
Potassium	ppm	ASTM D5185m	>20	**2**	---	---

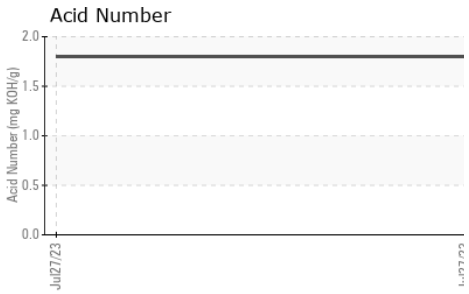
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	▲ **228515**	---	---
Particles >6µm		ASTM D7647	>5000	▲ **167325**	---	---
Particles >14µm		ASTM D7647	>640	▲ **9734**	---	---
Particles >21µm		ASTM D7647	>160	▲ **1087**	---	---
Particles >38µm		ASTM D7647	>40	**35**	---	---
Particles >71µm		ASTM D7647	>10	**2**	---	---
Oil Cleanliness		ISO 4406 (c)	>21/19/16	▲ **25/25/20**	---	---

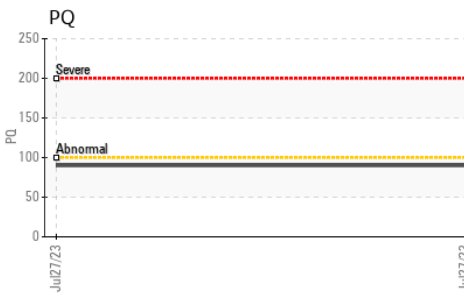
OIL ANALYSIS REPORT







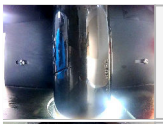




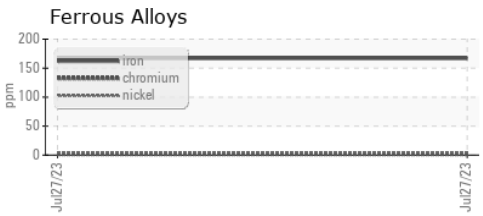
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**1.80**	---	---

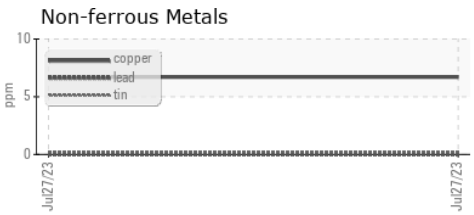
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	---	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	---	---
Precipitate	scalar	*Visual	NONE	**NONE**	---	---
Silt	scalar	*Visual	NONE	**NONE**	---	---
Debris	scalar	*Visual	NONE	▲ **MODER**	---	---
Sand/Dirt	scalar	*Visual	NONE	**NONE**	---	---
Appearance	scalar	*Visual	NORML	**NORML**	---	---
Odor	scalar	*Visual	NORML	**NORML**	---	---
Emulsified Water	scalar	*Visual	>0.2	**NEG**	---	---
Free Water	scalar	*Visual		**NEG**	---	---

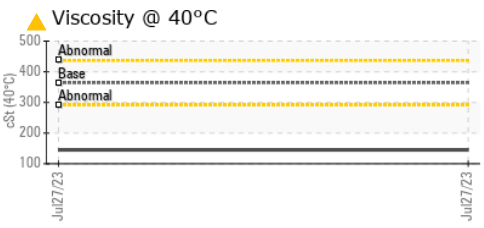
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	364	▲ **145**	---	---

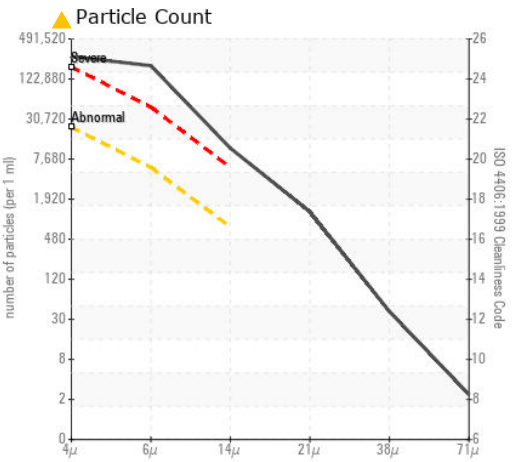
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				*no image*	*no image*
Bottom				*no image*	*no image*

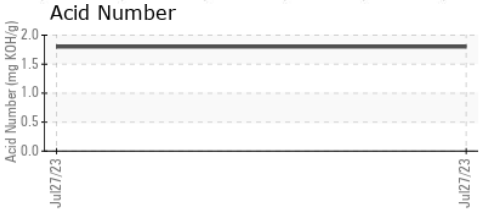
GRAPHS











Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PE0002364
Lab Number : 06138444
Unique Number : 10963252
Test Package : CONST (Additional Tests: ICP, KV40, PQ, PrtCount, SCREEN)

Received : 04 Apr 2024
Tested : 09 Apr 2024
Diagnosed : 09 Apr 2024 - Angela Borella

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)

ALTA FOREST PRODUCTS
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AMANDA PARK, WA
US 98526
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Rogertjepkema@altafp.com
T:
F:

Report Id: ALTAMA [WUSCAR] 06138444 (Generated: 04/09/2024 09:29:37) Rev: 1
Contact/Location: ROGER TJEPKEMA - ALTAMA