



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Area
[SL WILLIAMSON]

Machine Id
SLW 5100-2

Component
Hydraulic System

Fluid
AW HYDRAULIC OIL ISO 46 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RH0001987	---	---
Sample Date		Client Info		06 Apr 2024	---	---
Machine Age	hrs	Client Info		4425	---	---
Oil Age	hrs	Client Info		1000	---	---
Filter Age	hrs	Client Info		100	---	---
Oil Changed		Client Info		Not Chngd	---	---
Filter Changed		Client Info		Not Chngd	---	---
Sample Status				ATTENTION	---	---

WEAR

All component wear rates are normal.

PQ		ASTM D8184		14	---	---
Iron	ppm	ASTM D5185m	>20	4	---	---
Chromium	ppm	ASTM D5185m	>10	<1	---	---
Nickel	ppm	ASTM D5185m	>10	1	---	---
Titanium	ppm	ASTM D5185m		<1	---	---
Silver	ppm	ASTM D5185m		<1	---	---
Aluminum	ppm	ASTM D5185m	>10	2	---	---
Lead	ppm	ASTM D5185m	>10	2	---	---
Copper	ppm	ASTM D5185m	>75	3	---	---
Tin	ppm	ASTM D5185m	>10	1	---	---
Vanadium	ppm	ASTM D5185m		<1	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

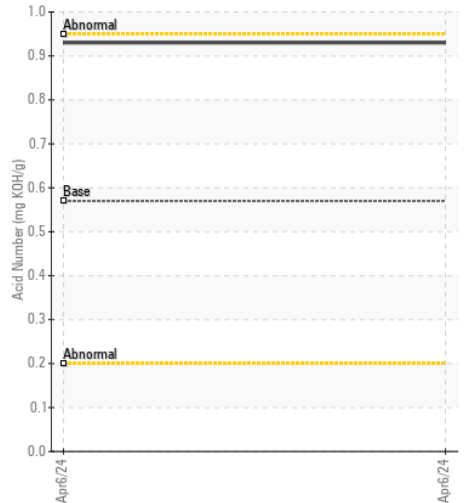
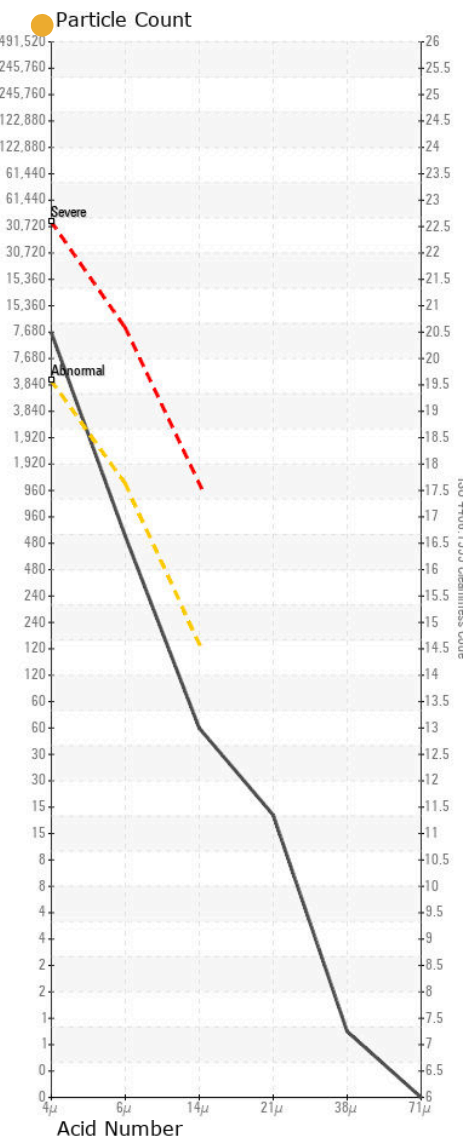
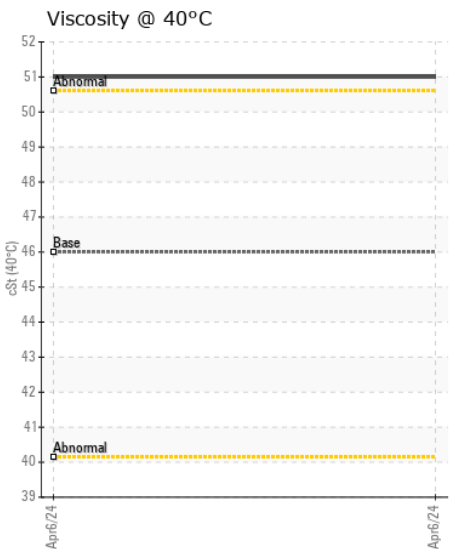
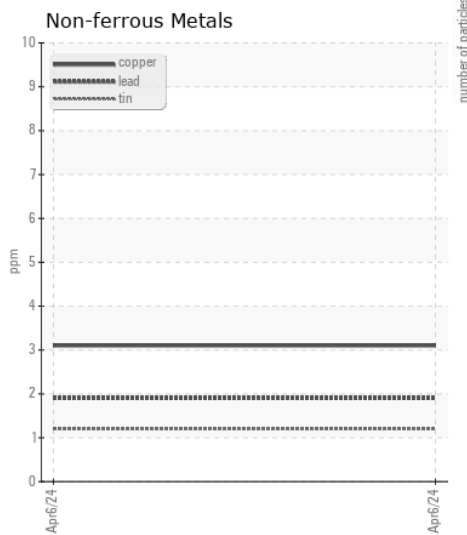
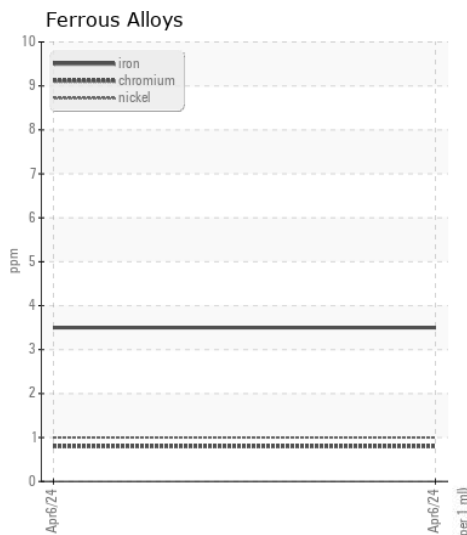
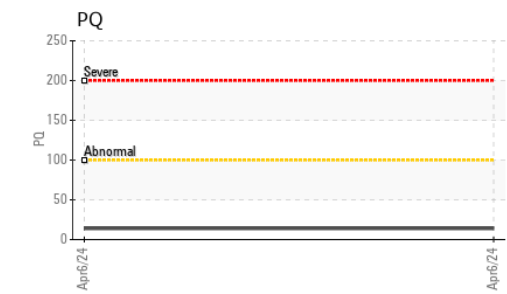
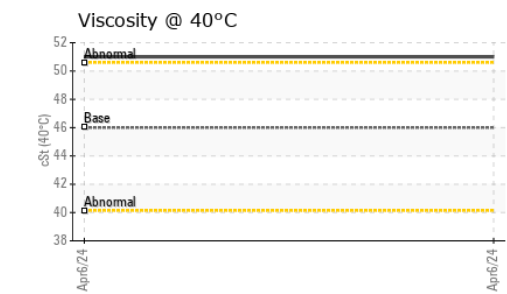
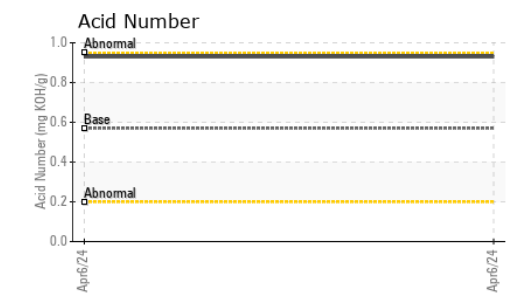
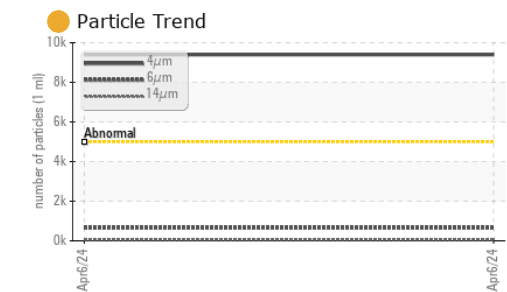
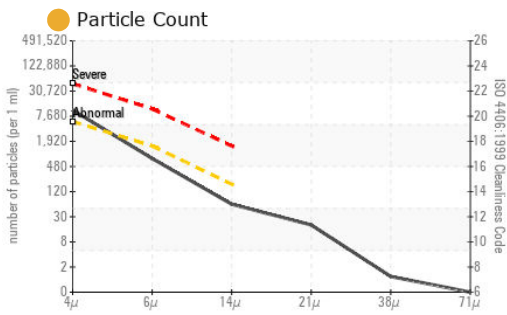
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>20	15	---	---
Potassium	ppm	ASTM D5185m	>20	2	---	---
Water		WC Method	>0.1	NEG	---	---
Particles >4µm		ASTM D7647	>5000	9394	---	---
Particles >6µm		ASTM D7647	>1300	654	---	---
Particles >14µm		ASTM D7647	>160	53	---	---
Particles >21µm		ASTM D7647	>40	17	---	---
Particles >38µm		ASTM D7647	>10	1	---	---
Particles >71µm		ASTM D7647	>3	0	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	20/17/13	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.1	NEG	---	---

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<1	---	---
Boron	ppm	ASTM D5185m	5	93	---	---
Barium	ppm	ASTM D5185m	5	<1	---	---
Molybdenum	ppm	ASTM D5185m	5	3	---	---
Manganese	ppm	ASTM D5185m		1	---	---
Magnesium	ppm	ASTM D5185m	25	45	---	---
Calcium	ppm	ASTM D5185m	200	2778	---	---
Phosphorus	ppm	ASTM D5185m	300	984	---	---
Zinc	ppm	ASTM D5185m	370	1188	---	---
Sulfur	ppm	ASTM D5185m	2500	8003	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.93	---	---
Visc @ 40°C	cSt	ASTM D445	46	51.0	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : RH0001987

Lab Number : 06159764

Unique Number : 10995187

Test Package : MOB 2 (Additional Tests: PQ)

Received : 24 Apr 2024

Tested : 25 Apr 2024

Diagnosed : 26 Apr 2024 - Don Baldrige

JRE - FISHERSVILLE

98 EXPO ROAD

FISHERSVILLE, VA

US 22939

Contact: MIKE JENKINS

MIKE.JENKINS@JAMESRIVEREQUIPMENT.COM

T: (540)292-3494

F: (540)337-1495

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)