



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

Machine Id  
**1009**  
Component  
**Left Final Drive**  
Fluid  
**SHELL SPIRAX S4 CX 30 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0195164</b>	JR0184570	JR0152287
Sample Date		Client Info		<b>05 Feb 2024</b>	26 Oct 2023	09 Jan 2023
Machine Age	hrs	Client Info		<b>10757</b>	7493	6410
Oil Age	hrs	Client Info		<b>500</b>	1000	0
Filter Age	hrs	Client Info		<b>500</b>	1000	0
Oil Changed		Client Info		<b>Changed</b>	Changed	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	ABNORMAL

### WEAR

All component wear rates are normal.

PQ		ASTM D8184		<b>33</b>	72	47
Iron	ppm	ASTM D5185m	>500	<b>44</b>	59	162
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	1	3
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	3
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>3</b>	8	▲ 24
Lead	ppm	ASTM D5185m	>25	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m	>50	<b>&lt;1</b>	3	10
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

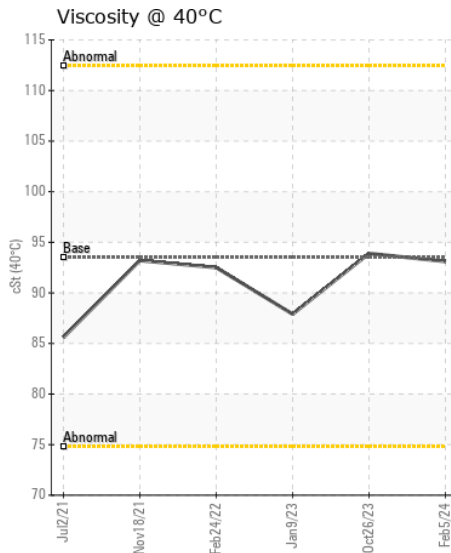
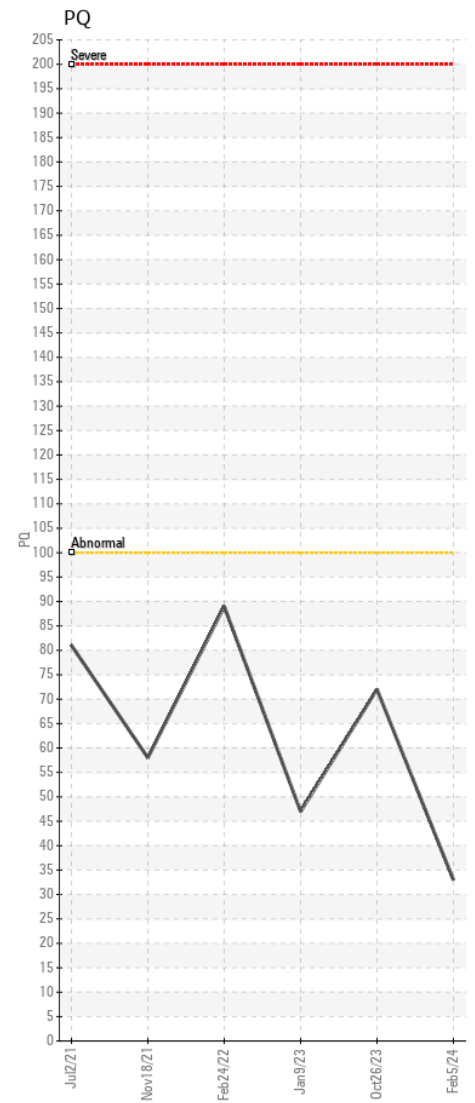
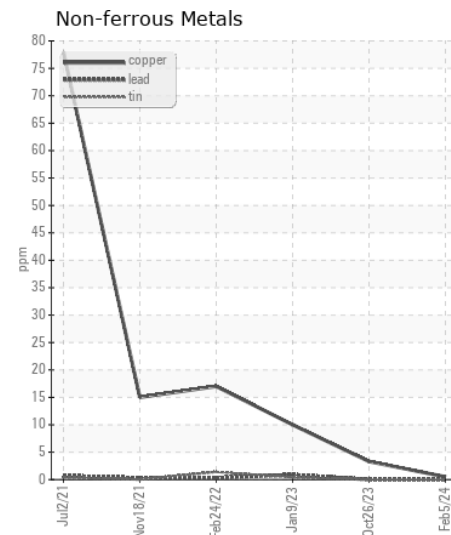
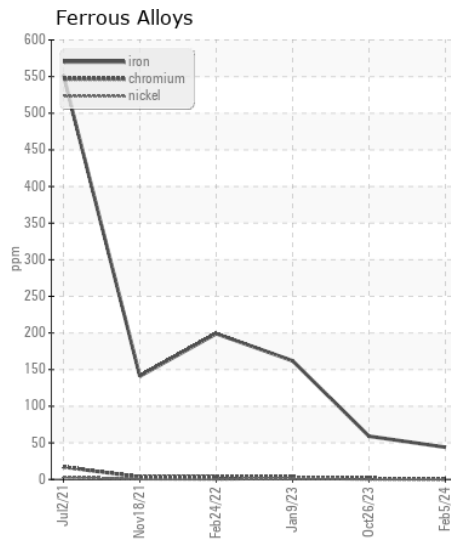
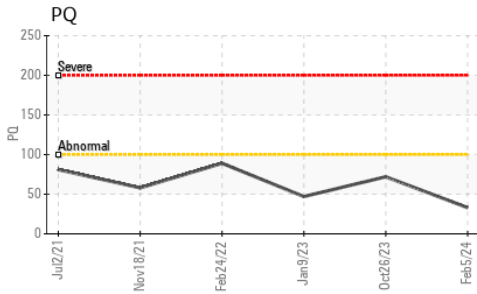
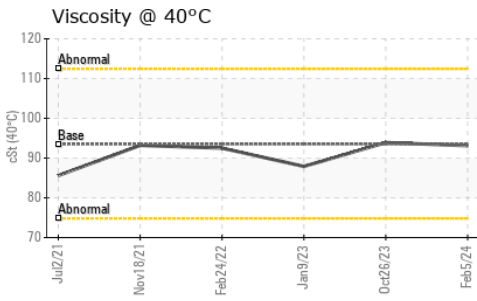
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>75	<b>34</b>	28	▲ 90
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	<1	2
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
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 condition of the fluid is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>0</b>	2	4
Boron	ppm	ASTM D5185m		<b>3</b>	<1	4
Barium	ppm	ASTM D5185m		<b>11</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>1</b>	<1	3
Manganese	ppm	ASTM D5185m		<b>0</b>	1	2
Magnesium	ppm	ASTM D5185m		<b>17</b>	26	21
Calcium	ppm	ASTM D5185m	4200	<b>2429</b>	3231	3754
Phosphorus	ppm	ASTM D5185m		<b>857</b>	889	758
Zinc	ppm	ASTM D5185m	1080	<b>997</b>	1068	935
Sulfur	ppm	ASTM D5185m		<b>7482</b>	3752	5532
Visc @ 40°C	cSt	ASTM D445	93.5	<b>93.1</b>	93.9	87.9



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0195164 **Received** : 14 Feb 2024  
**Lab Number** : 06089675 **Tested** : 16 Feb 2024  
**Unique Number** : 10877120 **Diagnosed** : 16 Feb 2024 - Sean Felton  
**Test Package** : CONST ( Additional Tests: PQ )

**PATRIOT DEVELOPMENT CORP**  
 22721 LADBROOK DRIVE STE 120  
 STERLING, VA  
 US 20166  
 Contact: ROBERT MOSS  
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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:  
F: