



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

Machine Id  
**1006**  
Component  
**Right Final Drive**  
Fluid  
**SHELL SPIRAX S4 CX 30 (--- QTS)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0195149</b>	JR0169495	JR0111912
Sample Date		Client Info		<b>05 Feb 2024</b>	26 Jul 2023	24 Jan 2022
Machine Age	hrs	Client Info		<b>7702</b>	10005	7632
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	Changed
Filter Changed		Client Info		<b>N/A</b>	N/A	Changed
Sample Status				<b>NORMAL</b>	ABNORMAL	NORMAL

### WEAR

All component wear rates are normal.

PQ		ASTM D8184		<b>86</b>	105	116
Iron	ppm	ASTM D5185m	>500	<b>145</b>	254	154
Chromium	ppm	ASTM D5185m	>10	<b>4</b>	5	3
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>1</b>	3	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>11</b>	▲ 32	7
Lead	ppm	ASTM D5185m	>25	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m	>50	<b>&lt;1</b>	<1	3
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

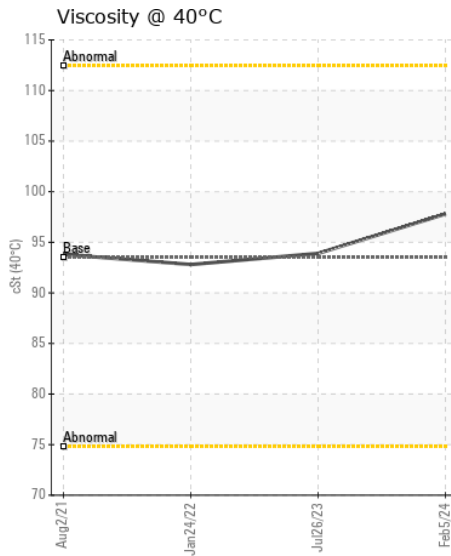
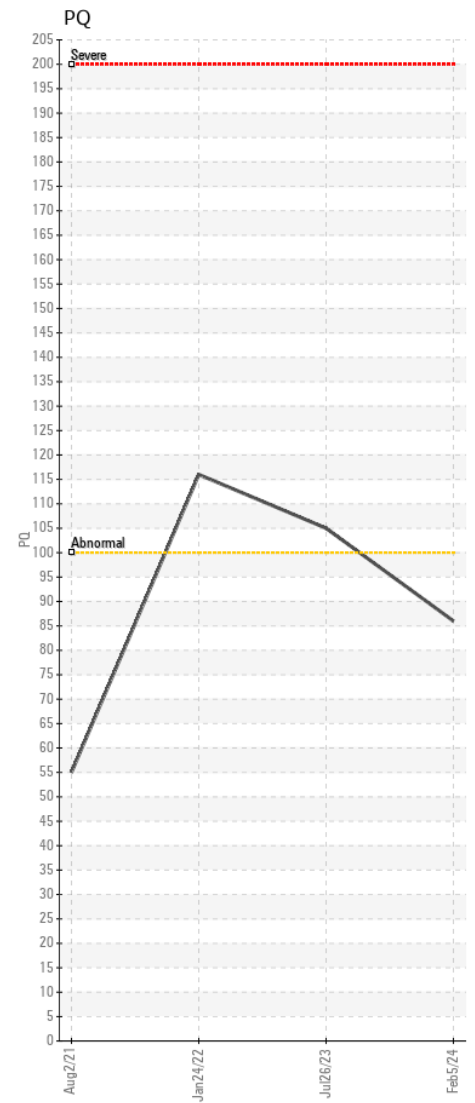
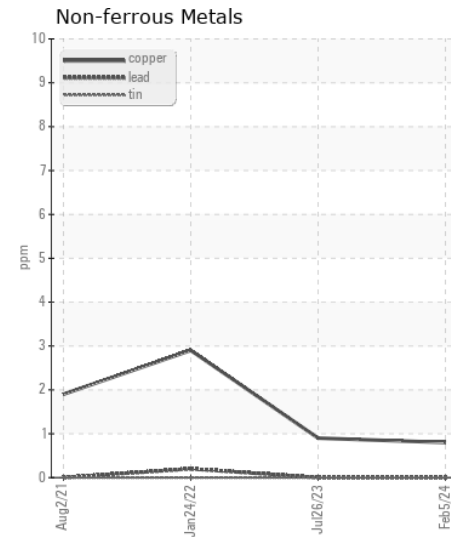
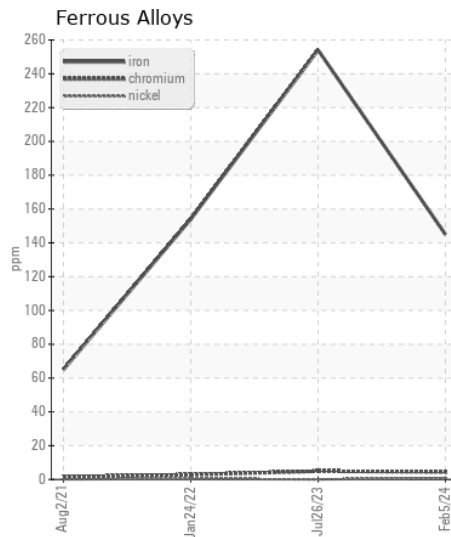
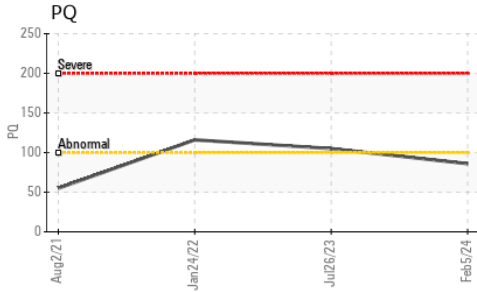
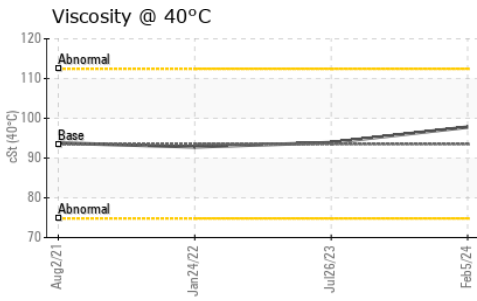
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>46</b>	▲ 108	28
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	8	3
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	VLITE
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 oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>0</b>	7	0
Boron	ppm	ASTM D5185m		<b>2</b>	0	4
Barium	ppm	ASTM D5185m		<b>11</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>5</b>	3	10
Manganese	ppm	ASTM D5185m		<b>1</b>	3	2
Magnesium	ppm	ASTM D5185m		<b>14</b>	19	17
Calcium	ppm	ASTM D5185m	4200	<b>3044</b>	3287	3514
Phosphorus	ppm	ASTM D5185m		<b>843</b>	1057	933
Zinc	ppm	ASTM D5185m	1080	<b>1004</b>	1279	1060
Sulfur	ppm	ASTM D5185m		<b>4278</b>	7329	3249
Visc @ 40°C	cSt	ASTM D445	93.5	<b>97.8</b>	93.9	92.8



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0195149 **Received** : 14 Feb 2024  
**Lab Number** : 06089672 **Tested** : 16 Feb 2024  
**Unique Number** : 10877117 **Diagnosed** : 16 Feb 2024 - Wes Davis  
**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)

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F: