



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



Machine Id  
**5023**  
Component  
**Right Final Drive**  
Fluid  
**SHELL SPIRAX S4 CX 50 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0210477</b>	JR0152013	JR0138060
Sample Date		Client Info		<b>14 Mar 2024</b>	06 Mar 2023	05 Sep 2022
Machine Age	hrs	Client Info		<b>12801</b>	11734	10600
Oil Age	hrs	Client Info		<b>3000</b>	0	0
Filter Age	hrs	Client Info		<b>3000</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	N/A	Not Changd
Filter Changed		Client Info		<b>Changed</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

PQ		ASTM D8184	>500	<b>38</b>	58	72
Iron	ppm	ASTM D5185m	>800	<b>105</b>	313	182
Chromium	ppm	ASTM D5185m	>10	<b>2</b>	4	2
Nickel	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m	>15	<b>1</b>	2	2
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>75	<b>7</b>	19	17
Lead	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	<1
Copper	ppm	ASTM D5185m	>75	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185m	>8	<b>&lt;1</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	VLITE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

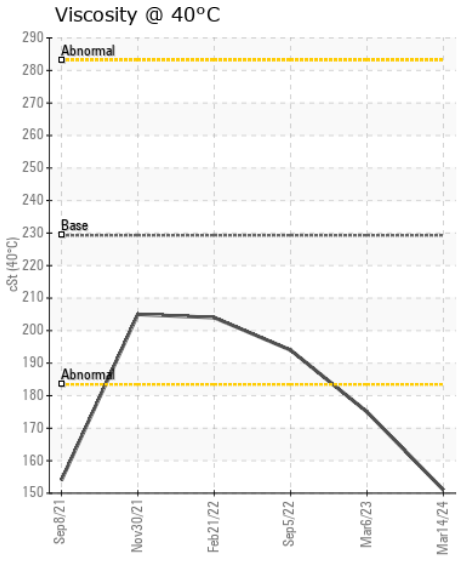
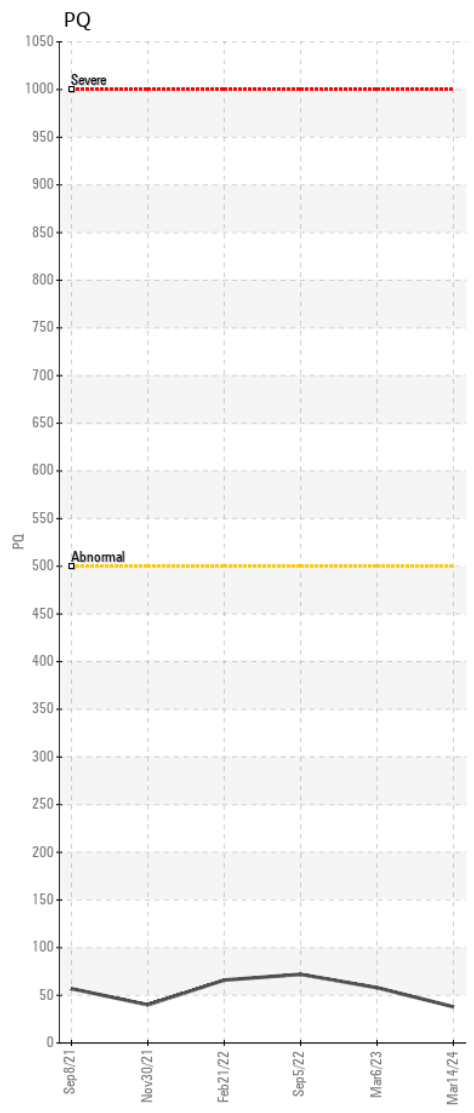
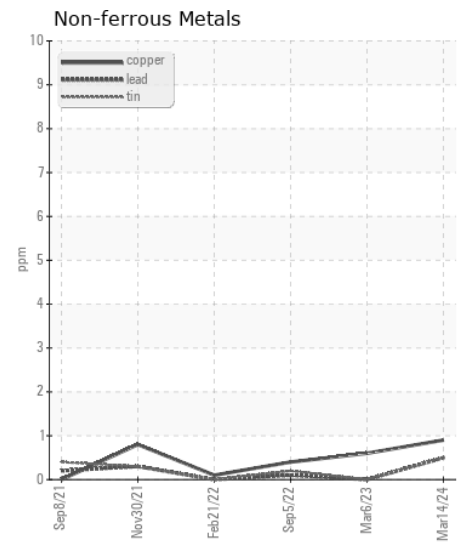
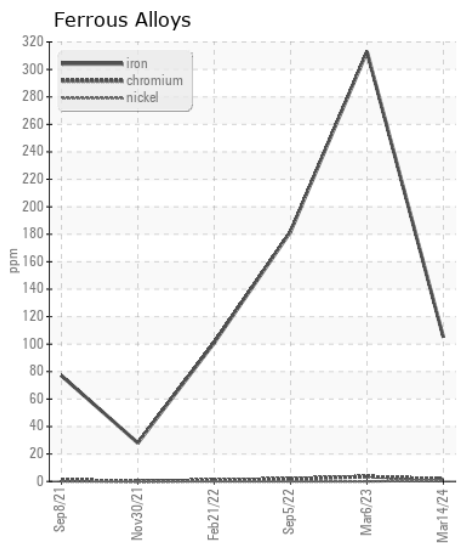
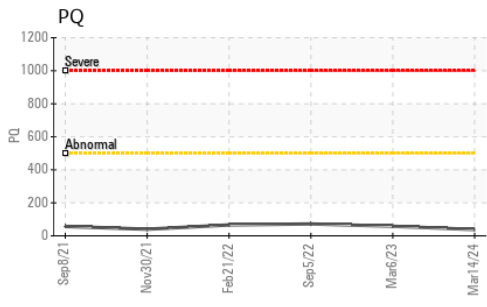
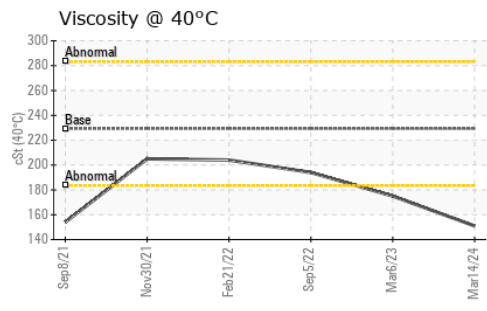
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>400	<b>30</b>	66	59
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	5	0
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>	LIGHT	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 oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>3</b>	4	2
Boron	ppm	ASTM D5185m		<b>2</b>	2	3
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>5</b>	2	1
Manganese	ppm	ASTM D5185m		<b>2</b>	4	2
Magnesium	ppm	ASTM D5185m		<b>31</b>	22	20
Calcium	ppm	ASTM D5185m	4200	<b>2585</b>	2888	2947
Phosphorus	ppm	ASTM D5185m		<b>852</b>	974	993
Zinc	ppm	ASTM D5185m	1080	<b>1084</b>	1170	1178
Sulfur	ppm	ASTM D5185m		<b>8699</b>	8455	6941
Visc @ 40°C	cSt	ASTM D445	229.3	<b>151</b>	175	194



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0210477 **Received** : 20 Mar 2024  
**Lab Number** : 06123951 **Tested** : 21 Mar 2024  
**Unique Number** : 10938102 **Diagnosed** : 21 Mar 2024 - Wes Davis  
**Test Package** : CONST ( Additional Tests: PQ )

**PATRIOT DEVELOPMENT CORP**  
 22721 LADBROOK DRIVE STE 120  
 STERLING, VA  
 US 20166  
 Contact: ROBERT MOSS  
 robert.moss@patriotdev.net  
 T:  
 F:

Certificate L2367  
 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)