



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
1009
 Component
Right 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		JR0195165	JR0184561	JR0152276
Sample Date		Client Info		05 Feb 2024	26 Oct 2023	09 Jan 2023
Machine Age	hrs	Client Info		10757	7493	6410
Oil Age	hrs	Client Info		500	1000	0
Filter Age	hrs	Client Info		500	1000	0
Oil Changed		Client Info		Changed	Changed	N/A
Filter Changed		Client Info		N/A	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184		34	103	61
Iron	ppm	ASTM D5185m	>500	40	67	123
Chromium	ppm	ASTM D5185m	>10	<1	2	4
Nickel	ppm	ASTM D5185m	>10	0	0	1
Titanium	ppm	ASTM D5185m		<1	<1	2
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>25	1	5	12
Lead	ppm	ASTM D5185m	>25	0	0	<1
Copper	ppm	ASTM D5185m	>50	<1	4	6
Tin	ppm	ASTM D5185m	>10	0	0	<1
Vanadium	ppm	ASTM D5185m		<1	<1	1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

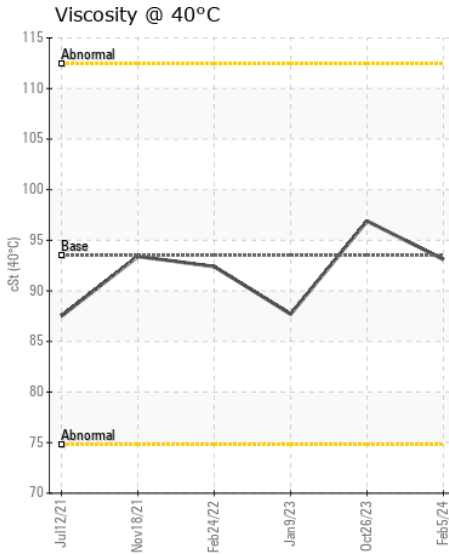
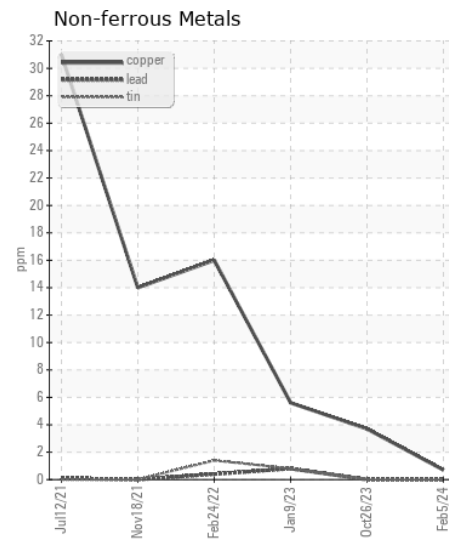
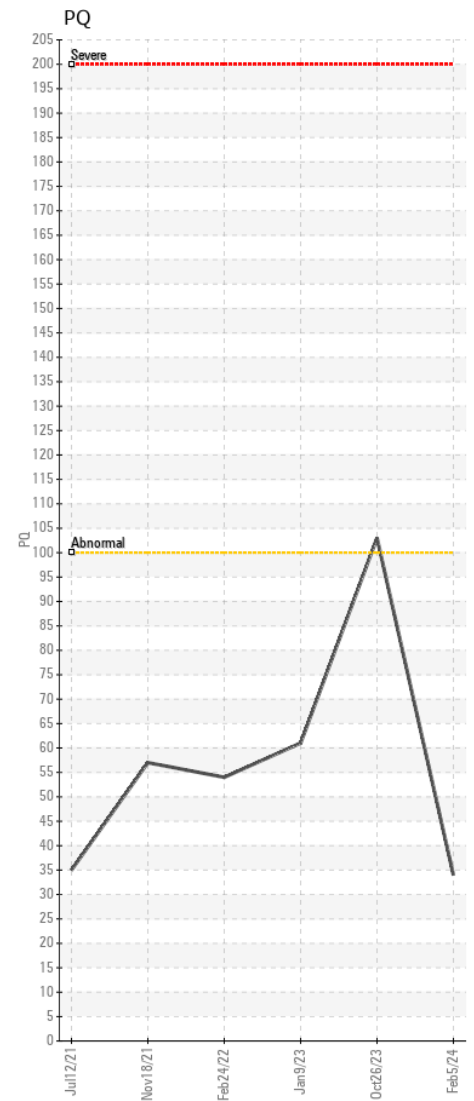
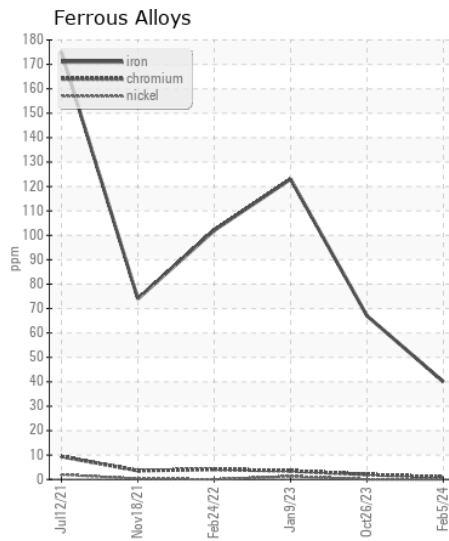
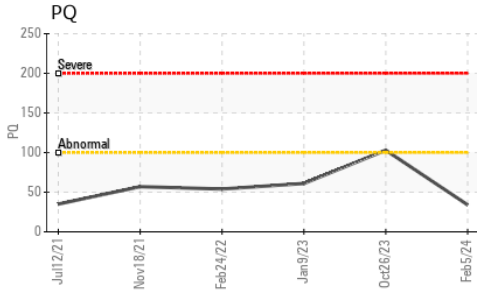
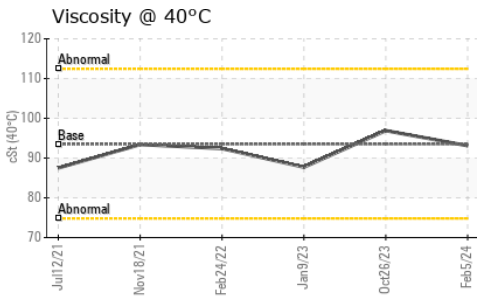
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>75	24	21	50
Potassium	ppm	ASTM D5185m	>20	2	0	<1
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG

FLUID CONDITION

The condition of the fluid is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		0	2	4
Boron	ppm	ASTM D5185m		3	0	4
Barium	ppm	ASTM D5185m		11	0	0
Molybdenum	ppm	ASTM D5185m		1	<1	3
Manganese	ppm	ASTM D5185m		0	1	2
Magnesium	ppm	ASTM D5185m		17	23	19
Calcium	ppm	ASTM D5185m	4200	2459	3128	3709
Phosphorus	ppm	ASTM D5185m		861	903	743
Zinc	ppm	ASTM D5185m	1080	996	1080	823
Sulfur	ppm	ASTM D5185m		7514	4554	5429
Visc @ 40°C	cSt	ASTM D445	93.5	93.1	96.9	87.7



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0195165 **Received** : 14 Feb 2024
Lab Number : 06089673 **Tested** : 16 Feb 2024
Unique Number : 10877118 **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
 robert.moss@patriotdev.net
 T:
 F:

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)