**WEAR** CONTAMINATION **FLUID CONDITION** 

**NORMAL MARGINAL NORMAL** 



4031 Component Right Final Drive

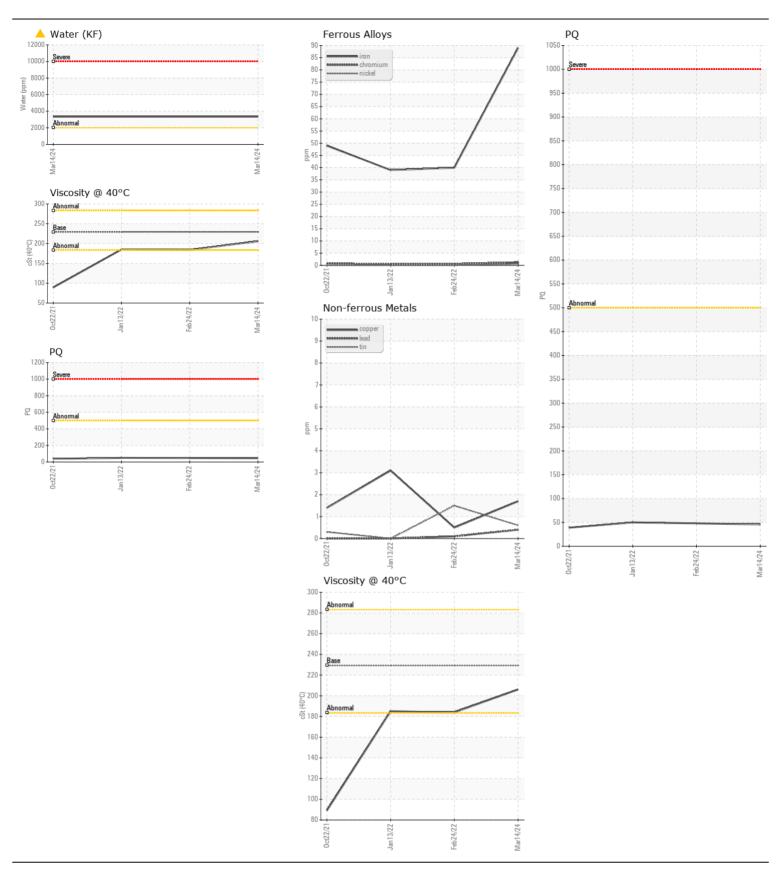
SHELL SPIRAX S4 CX 50 ( (	GAL)						
RECOMMENDATION  The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		JR0210626	JR0120362	JR011254
	Sample Date		Client Info		14 Mar 2024	24 Feb 2022	13 Jan 202
	Machine Age	hrs	Client Info		4588	1034	832
	Oil Age	hrs	Client Info		4000	0	0
	Filter Age	hrs	Client Info		4000	0	0
	Oil Changed		Client Info		Changed	Not Changd	Not Change
	Filter Changed		Client Info		N/A	Not Changd	Not Change
	Sample Status				MARGINAL	NORMAL	NORMAL
WEAR	PQ		ASTM D8184	>500	46	48	50
All component wear rates are normal.	Iron	ppm	ASTM D5185m	>800	89	40	39
	Chromium	ppm	ASTM D5185m	>10	1	<1	<1
	Nickel	ppm	ASTM D5185m	>5	<1	0	0
	Titanium	ppm	ASTM D5185m	>15	<1	<1	<1
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>75	4	2	0
	Lead	ppm	ASTM D5185m	>10	<1	<1	0
	Copper	ppm	ASTM D5185m		2	<1	3
	Tin	ppm	ASTM D5185m	>8	<1	2	0
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION  There is a light concentration of water present in the oil.	Silicon	ppm	ASTM D5185m	>400	30	16	13
	Potassium	ppm	ASTM D5185m	>20	2	0	<1
	Water	%	ASTM D6304	>0.2	<b>△</b> 0.334		
	ppm Water	ppm	ASTM D6304	>2000	<u> </u>		
	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		NORML	NORML	NORML	NORML
<u></u>	Emulsified Water	scalar	^Visual	>0.2	0.2% 	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		10	0	3
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m		2	3	8
	Barium	ppm	ASTM D5185m		3	0	3
	Molybdenum	ppm	ASTM D5185m		1	<1	<1
	Manganese	ppm	ASTM D5185m		2	<1	<1
	Magnesium	ppm	ASTM D5185m		13	14	12
	Calcium	ppm	ASTM D5185m	4200	3089	4367	4164
	Phosphorus	ppm	ASTM D5185m		799	917	918
	Zinc	ppm	ASTM D5185m	1080	1080	1053	1124
	Sulfur	ppm	ASTM D5185m		9809	7769	8836

Visc @ 40°C

cSt

ASTM D445 229.3

185







Laboratory Sample No.

: JR0210626 Lab Number : 06123949

Unique Number: 10938100 Test Package : CONST ( Additional Tests: KF, PQ )

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 20 Mar 2024 **Tested** : 21 Mar 2024

Diagnosed

: 22 Mar 2024 - Don Baldridge

STERLING, VA US 20166 Contact: ROBERT MOSS

PATRIOT DEVELOPMENT CORP

22721 LADBROOK DRIVE STE 120

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\* - 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)

F: