

### **OIL ANALYSIS REPORT**

# FLUID POWER 2177033 (S/N SRNS 105)

Component Hydraulic System

SHELL ECOSAFE S3 DU 46 (3 GAL)

#### DIAGNOSIS

#### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

#### Wear

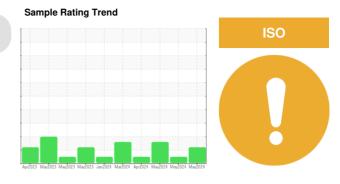
All component wear rates are normal.

#### Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

#### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

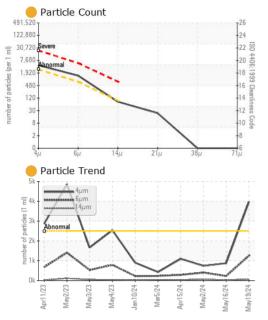


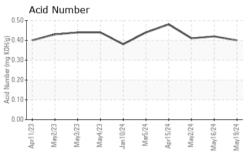
SAMPLE INFORM	ΛΑΤΙΟΝ	method	limit/base	current	history1	history2
Sample Number		Client Info		PH0001467	PH0001469	PH0001472
Sample Date		Client Info		19 May 2024	16 May 2024	02 May 2024
Machine Age	hrs	Client Info		0	0	02 May 2024
Oil Age	hrs	Client Info		0	0	0
Oil Changed	1115	Client Info		N/A	0 N/A	N/A
÷		Cilent Inio		ATTENTION	NORMAL	ABNORMAL
Sample Status						
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.05	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	0	0
Chromium	ppm	ASTM D5185m	>20	0	<1	0
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>20	0	<1	0
Lead	ppm	ASTM D5185m	>20	0	<1	0
Copper	ppm	ASTM D5185m	>20	0	<1	0
Tin	ppm	ASTM D5185m	>20	<1	2	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		7	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m		<1	0	<1
Calcium	ppm	ASTM D5185m		<1	<1	8
Phosphorus	ppm	ASTM D5185m		684	673	650
Zinc	ppm	ASTM D5185m		0	0	3
Sulfur	ppm	ASTM D5185m		4247	4172	3871
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	<1	0
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	0	0	0
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	<mark> </mark> 3970	875	739
Particles >6µm		ASTM D7647	>640	<mark> </mark> 1252	225	403
Particles >14µm		ASTM D7647	>80	71	24	69
Particles >21µm		ASTM D7647	>20	20	5	23
Particles >38µm		ASTM D7647	>4	0	1	4
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>18/16/13	<b>—</b> 19/17/13	17/15/12	17/16/13
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.40	0.42	0.41
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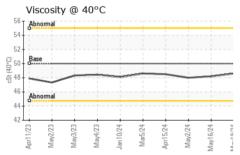
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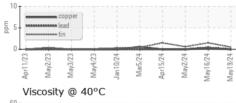






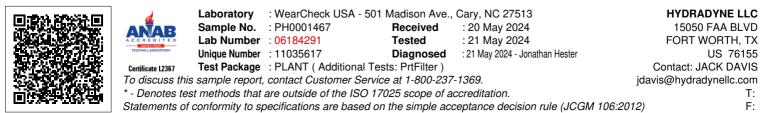
MOLIAL			11 11 11			
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	0.2%
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IFS	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	50.0	48.6	48.2	48.0
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
Color					·	
Bottom						
Dottom				16 31		
PrtFilter				no image	•	





	ormal								
50 Bas	e	1				1		1	
Abr	iormal								
40	23+	23 <del>-</del>	23+	24	24 +	24	24 +	24 +	24
Apr11/	May2/	May3/	May4/	an 10/	Mar5/	Apr15/	May2/	ay16/	lay19/2

(B/H0.60	Acid	Nur	nbe	r						
0.40 b) 0.40										
Acid N Acid N	Apr11/23	May2/23 +	May3/23	May4/23	an 10/24	Mar5/24	Apr15/24	May2/24	ay16/24	ay19/24



Contact/Location: JACK DAVIS - HYDFORTX