

## **PROBLEM SUMMARY**

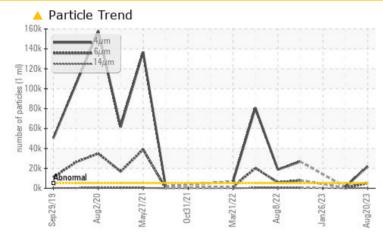
Particles >21µm

**Oil Cleanliness** 

# NORTH BONE CANNON

Hydraulic System Fluid USPI FG HYD 46 (--- GAL)

#### COMPONENT CONDITION SUMMARY



#### RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

#### **PROBLEMATIC TEST RESULTS** Sample Status NORMAL ABNORMAL ABNORMAL Particles >4µm ASTM D7647 >5000 21937 1382 Particles >6µm ASTM D7647 >1300 5204 479 241 ASTM D7647 >160 47 Particles >14µm

ISO 4406 (c) >19/17/14 🔺 22/20/15

**4**3

13

18/16/13

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ASTM D7647 >40

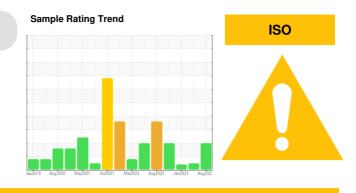
Customer Id: IBPDAK01 Sample No.: USPM29311 Lab Number: 05930463 Test Package: IND 2



To manage this report scan the QR code

*To discuss the diagnosis or test data:* Doug Bogart +1 (800)237-1369 x4016 <u>dougb@wearcheckusa.com</u>

*To change component or sample information:* Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u>



RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Change Filter			?	We recommend you service the filters on this component.			

#### HISTORICAL DIAGNOSIS





Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

# view report

#### 26 Jan 2023 Diag: Jonathan Hester

11 May 2023 Diag: Doug Bogart

#### VIS DEBRIS



We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



#### 03 Oct 2022 Diag: Doug Bogart

We recommend you service the filters on this component. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.







### **OIL ANALYSIS REPORT**

Sample Rating Trend

ISO

# NORTH BONE CANNON

Hydraulic System Fluid USPI FG HYD 46 (--- GAL)

#### DIAGNOSIS

#### A Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is a high amount of particulates present in the oil. There is a trace of moisture present in the oil.

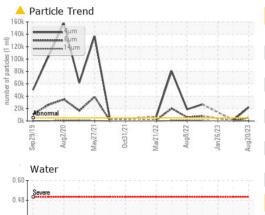
#### Fluid Condition

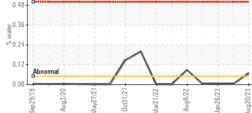
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

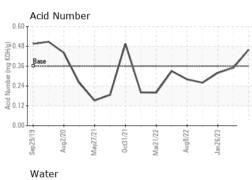
SAMPLE INFORM Sample Number Sample Date	/ALION		10.000			
		method	limit/base	current	history1	history2
Sample Date		Client Info		USPM29311	USPM28886	USPM26224
Campic Date		Client Info		20 Aug 2023	11 May 2023	26 Jan 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	0	0
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	0	0
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	<1	<1	1
Tin	ppm	ASTM D5185m	>20	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	2	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		0	0	0
Calcium	ppm	ASTM D5185m		0	0	0
Phosphorus	ppm	ASTM D5185m	725	527	550	527
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m	625	630	691	653
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	<1	<1
Sodium	ppm	ASTM D5185m		<1	0	0
Potassium	ppm	ASTM D5185m	>20	0	<1	0
Water	%	ASTM D6304	>0.05	0.068	0.004	0.005
ppm Water	ppm	ASTM D6304	>500	680	43.4	59.0
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<b>A</b> 21937	1382	
Particles >6µm		ASTM D7647	>1300	<u> </u>	479	
Particles >14µm		ASTM D7647	>160	<u> </u>	47	
		ASTM D7647	>40	<u> </u>	13	
Particles >21µm		ASTM D7647	>10	0	2	
•			. 0	0	0	
Particles >21µm		ASTM D7647	>3	U	0	
Particles >21µm Particles >38µm Particles >71µm		ASTM D7647 ISO 4406 (c)	>3 >19/17/14	0 <u> 22/20/15</u>	18/16/13	
Particles >21µm Particles >38µm						



## **OIL ANALYSIS REPORT**







0.60

0.4

<sub>닅</sub>0.36

÷ 0.24

0.12

0.00

52

50

42

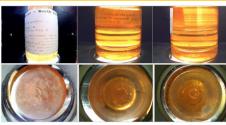
4( Abnorma

3

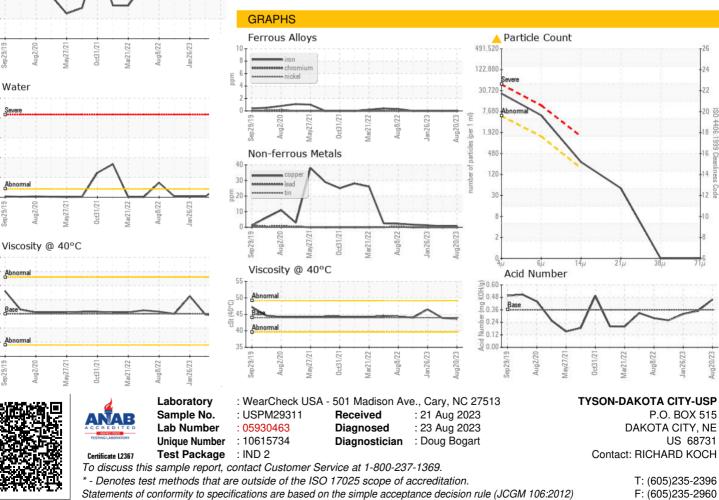
2en29/

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	A MODER
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	0.2%	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	44	43.6	43.9	46.5
SAMPLE IMAGES		method	limit/base	current	history1	history2
				alle - North by	Hydraulic N gone Care	

Color



Bottom



Report Id: IBPDAK01 [WUSCAR] 05930463 (Generated: 08/23/2023 16:52:55) Rev: 1

Contact/Location: RICHARD KOCH - IBPDAK01