

# **PROBLEM SUMMARY**

# Area Machine Id CCH01 Generator Thrust / Guide Bearing (S/N 2S57P485) Component Case Drain Thrust Bearing Fluid CONOCO MULTIPURPOSE R&O OIL ISO 68 (100 GAL)

COMPONENT CONDITION SUMMARY



No relevant graphs to display

RECOMMENDATION

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.

PROBLEMATIC T	EST RE	SULTS				
Sample Status				ABNORMAL	NORMAL	NORMAL
Debris	scalar	*Visual	NONE	🔺 MODER	NONE	LIGHT

Customer Id: PPLBUT Sample No.: WC0757843 Lab Number: 05933490 Test Package: IND 2



To manage this report scan the QR code

*To discuss the diagnosis or test data:* Jonathan Hester +1 919-379-4092 x4092 <u>jhester@wearcheckusa.com</u>

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

RECOMMENDED AC	TIONS			
Action	Status	Date	Done By	Description
Change Filter			?	We recommend you service the filters on this component.
Alert			?	We were unable to perform a particle count due to a high concentration of particles present in this sample.

## HISTORICAL DIAGNOSIS



# 28 Apr 2023 Diag: Don Baldridge

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.





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.

## 02 Dec 2022 Diag: Jonathan Hester

#### NORMAL



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

view report





# **OIL ANALYSIS REPORT**

# Cochrane Machine Id CCH01 Generator Thrust / Guide Bearing (S/N 2S57P485) Component

Case Drain Thrust Bearing

CONOCO MULTIPURPOSE R&O OIL ISO 68 (100 GAL)

# DIAGNOSIS

# Recommendation

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.

# Wear

All component wear rates are normal.

## Contamination

Moderate concentration of visible dirt/debris 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 Rating Trend

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0757843	WC0757791	WC0757832
Sample Date		Client Info		12 Aug 2023	28 Apr 2023	08 Mar 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	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>85	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	>40	0	<1	<1
Lead	ppm	ASTM D5185m	>60	<1	0	0
Copper	ppm	ASTM D5185m	>7	0	0	0
Tin	ppm	ASTM D5185m	>40	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		2	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m		0	0	0
Calcium	ppm	ASTM D5185m		0	0	0
Phosphorus	ppm	ASTM D5185m		27	33	38
Zinc	ppm	ASTM D5185m		7	0	0
Sultur	ppm	ASTM D5185m		3	81	310
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	0	0	1
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	<1	0	0
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500		620	756
Particles >6µm		ASTM D7647	>640		150	181
Particles >14µm		ASTM D7647	>80		19	30
Particles >21µm		ASTM D7647	>20		7	10
Particles >38µm		ASTM D7647	>4		1	1
Particles >71µm		ASTM D7647	>3		0	1
Oil Cleanliness		ISO 4406 (c)	>18/16/13		16/14/11	17/15/12
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.14	0.14	0.14	0.18



# **OIL ANALYSIS REPORT**





NONE	NONE	NONE	N	NONE	*Visual	scalar	White Metal		
NONE	NONE	NONE	N	NONE	*Visual	scalar	Yellow Metal		
NONE	NONE	NONE	N	NONE	*Visual	scalar	Precipitate	٨	
NONE	NONE	NONE	N	NONE	*Visual	scalar	Silt	$\int$	$\sim \sim$
LIGHT	NONE	MODER	🔺 N	NONE	*Visual	scalar	Debris		
NONE	NONE	NONE	N	NONE	*Visual	scalar	Sand/Dirt		
NORML	NORML	NORML	N	NORML	*Visual	scalar	Appearance	r8/21	5/18
NORML	NORML	NORML	N	NORML	*Visual	scalar	Odor	Ma Sep1	Sep Nov1
NEG	NEG	NEG	N	>2	*Visual	scalar	Emulsified Water		
NEG	NEG	NEG	N		*Visual	scalar	Free Water		
history	historyd	ourropt		limit/box	mothod				
69.5	69.5		5 <del>0</del> 6	68.2		08+			$\sim$
69.0	09.0	09.0	0	00.2	A511VI D445	COL		V	
history2	history1	current	se	limit/bas	method	S	SAMPLE IMAGES		
	PH-BUT (Hink CHUT Gasar Sample Dar S		3				Color	Mar8/21	Sep5/18
$\bigcirc$							Bottom		
no image	no image	no image	n				PrtFilter		
		cid Number	Ac		Mar8/21 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Sep5/18	Viscosity @ 40°C		
			0.40 0.30	KOH			Abnormal	ē	
٨		Ann	0.20	Les (mo	V	and the second second	Abnormal	00000	
		-r	0.10	Numb			, 60 + 4	c.	
22	18	14	0.00	Acid	- 19 - 21 -	18	50 + FL + F		
Mar8/	lay23/ Sep5/ ov13//	tep24/	Mar3/		lov13/ Mar8/	Sep5/	Mar3/ tep24/ far14//		
ERN ENERG BOW DAM R AT FALLS, M US 5940 EY BOGNAT b@mbesi cor	NORTHWEST 6700 RAIN GRE ontact: STANL	~ 2	513 ster	ry, NC 27 Aug 2023 Aug 2023 athan Hes count )	son Ave., Ca	501 Madi Received Diagnos Diagnos ests: Filte	: WearCheck USA - 5 : WC0757843 : 05933490 : 10618761 : IND 2 ( Additional T	Laboratory Sample No. Lab Number Unique Number Test Package	ificate L2367
	ACTION CALL	Sep24/14	0.30 0.00 0.00 513 5ter	ry, NC 273 Aug 2023 Aug 2023 athan Hes count )	son Ave., Ca d : 24 ed : 28 ician : Jon erPatch. PrtC	501 Madia Received Diagnos Diagnos ests: Filte		Laboratory Sample No. Lab Number Unique Number Test Packace	