

### **OIL ANALYSIS REPORT**

Sample Rating Trend



**NORMAL** 



# Cochrane

# CCH01 Generator Thrust / Guide Bearing (S/N 2S57P485)

Case Drain Thrust Bearing

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

## DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

### **Fluid Condition**

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

68 (100 GAL) v2013 Sep2015 Nov2016 Mar2016 Jun2019 Sep2020 Nov2021 Apr2023						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC06196624	WC0843416	WC0843396
Sample Date		Client Info		18 May 2024	29 Feb 2024	08 Nov 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				NORMAL	NORMAL	NORMAL
CONTAMINATION	V	method	limit/base	current	history1	history2
Water		WC Method	>2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>85	0	0	0
Chromium	ppm	ASTM D5185m	>20	0	<1	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	2	0
Lead	ppm	ASTM D5185m	>60	<1	<1	0
Copper	ppm	ASTM D5185m	>7	0	0	0
Tin	ppm	ASTM D5185m	>40	0	<1	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	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		<1	0	0
Calcium	ppm	ASTM D5185m		<1	4	0
Phosphorus	ppm	ASTM D5185m		32	26	32
Zinc	ppm	ASTM D5185m		7	7	0
Sulfur	ppm	ASTM D5185m		327	220	302
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	0	0	0
Sodium	ppm	ASTM D5185m		<1	0	0
Potassium	ppm	ASTM D5185m	>20	0	<1	0
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
FLUID GLEANLIN						
Particles >4µm		ASTM D7647	>2500	760	248	170
		ASTM D7647 ASTM D7647	>2500 >640	760 233	248 44	170 46
Particles >4µm Particles >6µm Particles >14µm						
Particles >4μm Particles >6μm		ASTM D7647	>640	233	44	46
Particles >4μm Particles >6μm Particles >14μm		ASTM D7647 ASTM D7647	>640 >80	233 31	44	46 8
Particles >4μm Particles >6μm Particles >14μm Particles >21μm		ASTM D7647 ASTM D7647 ASTM D7647	>640 >80 >20	233 31 8	44 4 1	46 8 5
Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm		ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>640 >80 >20 >4	233 31 8 0	44 4 1 0	46 8 5 2



### **OIL ANALYSIS REPORT**







Certificate 12367

Laboratory

Sample No.

: WC06196624 Lab Number : 06196624

Unique Number : 11058747

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 31 May 2024 Tested : 04 Jun 2024

00.00 AC

Diagnosed : 04 Jun 2024 - Jonathan Hester Test Package : IND 2 ( Additional Tests: FilterPatch, PrtCount ) To discuss this sample report, contact Customer Service at 1-800-237-1369.

 $^st$  - 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)

**NORTHWESTERN ENERGY** 

6700 RAINBOW DAM RD GREAT FALLS, MT US 59404

Contact: STANLEY BOGNATZ srb@mbesi.com

T: (570)575-9252 F: (570)227-0014

Report Id: PPLBUT [WUSCAR] 06196624 (Generated: 06/05/2024 08:44:37) Rev: 1

Contact/Location: STANLEY BOGNATZ - PPLBUT