

PROBLEM SUMMARY

Sample Rating Trend



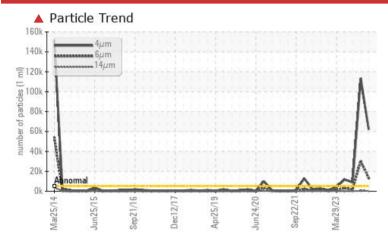
8 Printer

68-0169 8 Printer Menzel Hydraulic Pump

Hydraulic System

SUNOCO SUNVIS 846 ISO 46 (36 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation.

PROBLEMATIC TEST RESULTS							
Sample Status			SEVERE	SEVERE	ATTENTION		
Particles >4µm	ASTM D7647	>5000	▲ 62128	▲ 113459	8920		
Particles >6µm	ASTM D7647	>1300	13454	▲ 30339	1938		
Particles >14μm	ASTM D7647	>160	^ 360	<u></u> 411	107		
Oil Cleanliness	ISO 4406 (c)	>19/17/14	23/21/16	2 4/22/16	0 20/18/14		

Customer Id: CAN52CAM Sample No.: WC0867502 Lab Number: 02626623 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Wes Davis +1 905-569-8600 x223 wesd@wearcheck.ca

To change component or sample information: Gloria Gonzalez +1 (289)291-4643 x4643 gloria.gonzalez@wearcheck.com

RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description		
Change Filter			?	We recommend you service the filters on this component.		
Resample			?	Resample in 30-45 days to monitor this situation.		
Check Breathers			?	The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather.		
Check Seals			?	Check seals and/or filters for points of contaminant entry.		

HISTORICAL DIAGNOSIS

03 Jan 2024 Diag: Wes Davis

ISO



Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation. All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.





03 Oct 2023 Diag: Wes Davis

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 light amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



ISO



06 Jul 2023 Diag: Wes Davis

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.





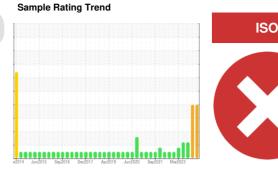
OIL ANALYSIS REPORT

8 Printer

68-0169 8 Printer Menzel Hydraulic Pump

Hydraulic System

SUNOCO SUNVIS 846 ISO 46 (36 GAL)



DIAGNOSIS

Recommendation

Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation.

Wear

All component wear rates are normal.

Contamination

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

Fluid Condition

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORMA	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0867502	WC0744103	WC0808273
Sample Date		Client Info		20 Mar 2024	03 Jan 2024	03 Oct 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				SEVERE	SEVERE	ATTENTION
CONTAMINATION		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 D5185(m)	>20	5	8	4
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>20	0	<1	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	0	<1	0
Lead	ppm	ASTM D5185(m)	>20	0	<1	1
Copper	ppm	ASTM D5185(m)	>20	6	8	8
Tin	ppm	ASTM D5185(m)	>20	0	0	0
Antimony	ppm	ASTM D5185(m)		0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		0	0	<1
Barium	ppm	ASTM D5185(m)		<1	0	<1
Molybdenum	ppm	ASTM D5185(m)		0	0	0
	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)		0	<1	0
	ppm	ASTM D5185(m)		11	14	15
Phosphorus	ppm	ASTM D5185(m)		241	244	252
	ppm	ASTM D5185(m)		170	107	120
	ppm	ASTM D5185(m)		4977	4937	4819
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	0	0	<1
Sodium	ppm	ASTM D5185(m)		1	3	3
Potassium	ppm	ASTM D5185(m)	>20	<1	4	0
FLUID CLEANLINE	SS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>5000	62128	1 13459	8920
Particles >6µm		ASTM D7647	>1300	13454	▲ 30339	1938
Particles >14μm		ASTM D7647	>160	^ 360	▲ 411	107
Particles >21µm		ASTM D7647	>40	55	32	22
Particles >38μm		ASTM D7647	>10	2	1	1

ASTM D7647 >3

ISO 4406 (c) >19/17/14 **23/21/16**

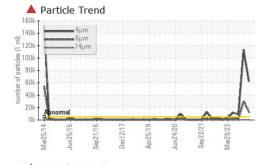
Particles >71µm

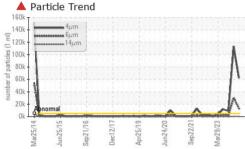
Oil Cleanliness

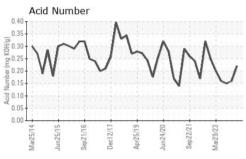
24/22/16

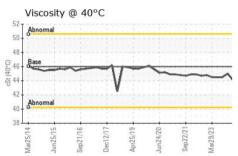


OIL ANALYSIS REPORT

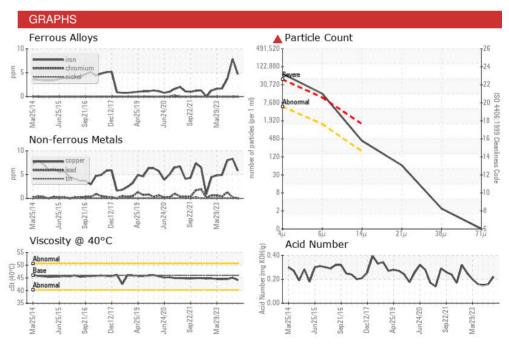








FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		0.22	0.16	0.15
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	VLITE	NONE
Debris	scalar	Visual*	NONE	VLITE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	VLITE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.05	NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG
FLUID PROPERT	ΓIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	46.0	44.1	45.0	44.5
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color						
			100			







Report Id: CAN52CAM [WCAMIS] 02626623 (Generated: 04/05/2024 08:33:22) Rev: 1

Laboratory Sample No.

Test Package : IND 2

Lab Number : 02626623

: WC0867502 Unique Number : 5759755

To discuss this sample report, contact Customer Service at 1-800-268-2131.

Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.

Bottom

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received : 04 Apr 2024 **Tested** : 05 Apr 2024

Diagnosed

: 05 Apr 2024 - Wes Davis

CANADIAN GENERAL TOWER LTD. 52 MIDDLETON STREET, P.O. BOX 160 CAMBRIDGE, ON CA N1S 2R4

Contact: Bob Abell bob.abell@cgtower.com

T: (519)623-1630 F: (519)623-7018