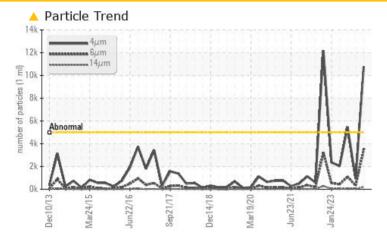


PROBLEM SUMMARY

Area **4 Calender Line** Machine Id **38-0187 Embosser Hydraulics** Component

Hydraulic System Fluid SUNOCO SUNVIS 846 ISO 46 (39 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS							
Sample Status			ABNORMAL	NORMAL	NORMAL		
Particles >4µm	ASTM D7647	>5000	<u> </u>	916	2019		
Particles >6µm	ASTM D7647	>1300	A 3476	312	434		
Particles >14µm	ASTM D7647	>160	<u> </u>	36	39		
Oil Cleanliness	ISO 4406 (c)	>19/17/14	A 21/19/15	17/15/12	18/16/12		

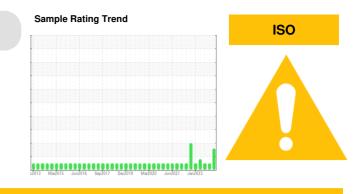
Customer Id: CAN52CAM Sample No.: WC0808268 Lab Number: 02587597 Test Package: IND 2



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 <u>gloria.gonzalez@wearcheck.com</u>



RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description		
Change Filter			?	We recommend you service the filters on this component.		
Resample			?	We recommend an early resample to monitor this condition.		

HISTORICAL DIAGNOSIS



06 Jul 2023 Diag: Wes Davis

Resample at the next service interval to monitor.All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



view report

29 Mar 2023 Diag: Wes Davis



Resample at the next service interval to monitor.All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

29 Mar 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.





4406 cleanliness code. The system and fluid cleanliness is . The condition of the oil is suitable for further service.



OIL ANALYSIS REPORT

4 Calender Line 38-0187 Embosser Hydraulics Component

Hydraulic System

SUNOCO SUNVIS 846 ISO 46 (39 GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

Wear

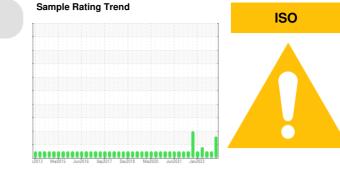
All component wear rates are normal.

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 oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



	ATION				Jan2023	
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0808268	WC0808294	WC0782368
Sample Date		Client Info		03 Oct 2023	06 Jul 2023	29 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 D5185(m)	>30	<1	<1	3
Chromium	ppm	ASTM D5185(m)	>2	0	0	0
Nickel	ppm	ASTM D5185(m)	>2	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		<1	0	0
Aluminum	ppm	ASTM D5185(m)	>2	0	<1	0
Lead	ppm	ASTM D5185(m)	>10	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>25	<1	<1	1
Tin	ppm	ASTM D5185(m)	>20	0	0	0
Antimony	ppm	ASTM D5185(m)		0	0	<1
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)		<1	<1	<1
Barium	ppm	ASTM D5185(m)		<1	0	0
Molybdenum	ppm	ASTM D5185(m)		0	<1	0
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)		2	2	<1
Calcium	ppm	ASTM D5185(m)		39	39	30
Phosphorus	ppm	ASTM D5185(m)		256	271	268
Zinc	ppm	ASTM D5185(m)		313	324	287
Sulfur	ppm	ASTM D5185(m)		5749	5851	4308
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	<1	<1	2
Sodium	ppm	ASTM D5185(m)		0	0	0
Potassium	ppm	ASTM D5185(m)	>20	0	<1	<1
FLUID CLEANLINE	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	/ 10774	916	2019
Particles >6µm		ASTM D7647	>1300	A 3476	312	434
Particles >14µm		ASTM D7647	>160	<u> </u>	36	39
Particles >21µm		ASTM D7647	>40	37	8	13
Particles >38µm		ASTM D7647	>10	2	0	2
Particles >71µm		ASTM D7647		0	0	1
Oil Cleanliness		ISO 4406 (c)		A 21/19/15	17/15/12	18/16/12

mg KOH/g ASTM D974*

method

limit/base

current

history1 0.30 0.30 0.35

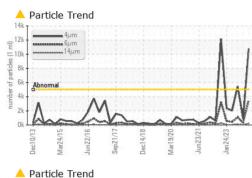
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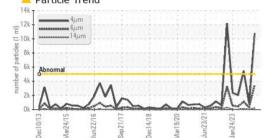
Contact/Location: Bob Abell - CAN52CAM

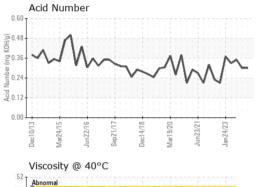
history2

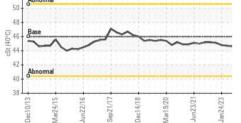


OIL ANALYSIS REPORT





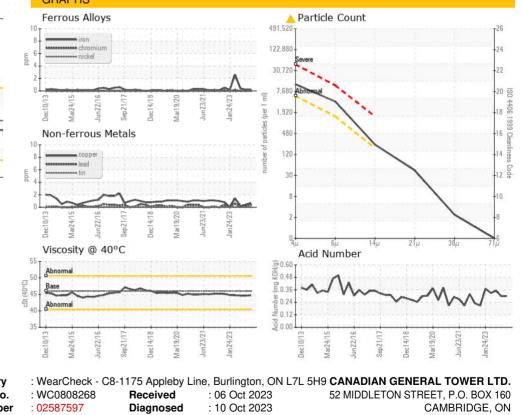




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	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	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	46.0	44.7	44.6	44.6
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
					A THE	
Color						

Bottom

GRAPHS



Laboratory CALA Sample No. Lab Number ISO 17025:2017 Accredited Laboratory Unique Number : 5656663 Diagnostician : Wes Davis CA N1S 2R4 Test Package : IND 2 Contact: Bob Abell To discuss this sample report, contact Customer Service at 1-800-268-2131. bob.abell@cgtower.com Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T: (519)623-1630 Validity of results and interpretation are based on the sample and information as supplied. F: (519)623-7018

Contact/Location: Bob Abell - CAN52CAM