

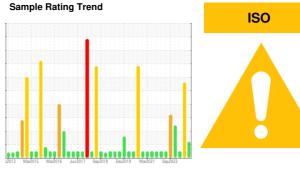
PROBLEM SUMMARY

1 Laminator

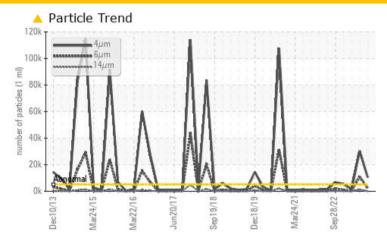
50-164 1 Laminator Menzel Hydraulic Pump

Hydraulic System

SUNOCO SUNVIS 846 ISO 46 (36 GAL)



COMPONENT CONDITION SUMMARY



RECOMMENDATION

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

PROBLEMATIC TE	ST RESULTS				
Sample Status			ABNORMAL	SEVERE	NORMAL
Particles >4µm	ASTM D7647	>5000	<u> </u>	▲ 30306	1501
Particles >6µm	ASTM D7647	>1300	2292	10967	231
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<u>^</u> 21/18/14	22/21/17	18/15/11

Customer Id: CAN52CAM **Sample No.:** WC0837270 Lab Number: 02587598 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			?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS

07 Jul 2023 Diag: Wes Davis





We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. 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. Resample in 30-45 days to monitor this situation. All component wear rates are normal. There is a high amount of particulates (2 to 100 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.



31 Mar 2023 Diag: Wes Davis

NORMAL



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

26 Jan 2023 Diag: Kevin Marson

WEAR



We recommend that you drain the oil from the component if this has not already been done. We recommend you service the filters on this component. We recommend an early resample to monitor this condition. Copper and iron ppm levels are abnormal. Oil cooler core leaching or motor piston wear is indicated. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. 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 oil is no longer serviceable as a result of the abnormal and/or severe wear.





OIL ANALYSIS REPORT

Sample Rating Trend

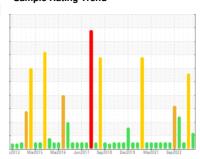
ISO

1 Laminator

50-164 1 Laminator Menzel Hydraulic Pump

Hydraulic System

SUNOCO SUNVIS 846 ISO 46 (36 GAL)





DIAGNOSIS

Recommendation

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

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.

SAMPLE INFORMA	TION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0837270	WC0808280	WC0744086
Sample Date		Client Info		04 Oct 2023	07 Jul 2023	31 Mar 2023
	nrs	Client Info		0	0	0
-	nrs	Client Info		0	0	0
Oil Changed	0	Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	SEVERE	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
	nm	ASTM D5185(m)	>20	<1	6	6
	opm	ASTM D5185(m)		0	0	0
	opm	ASTM D5185(m)	>20	0	<1	0
	opm	. ,	>20	0	0	0
	opm	ASTM D5185(m)		_		
	opm	ASTM D5185(m)	. 20	<1 0	0	0
	opm	ASTM D5185(m)		-	0	<1
	opm	ASTM D5185(m)	>20	<1	<1	<1
	opm	ASTM D5185(m)		<1	<1	<1
	opm	ASTM D5185(m)	>20	0	0	0
	opm	ASTM D5185(m)		0	<1	0
	opm	ASTM D5185(m)		0	0	0
	opm	ASTM D5185(m)		0	0	0
Cadmium p	opm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron p	opm	ASTM D5185(m)		<1	<1	<1
Barium p	opm	ASTM D5185(m)		<1	0	0
Molybdenum p	opm	ASTM D5185(m)		0	0	0
Manganese p	opm	ASTM D5185(m)		0	<1	<1
Magnesium p	pm	ASTM D5185(m)		<1	<1	<1
Calcium	opm	ASTM D5185(m)		36	17	17
Phosphorus p	opm	ASTM D5185(m)		249	301	305
Zinc p	opm	ASTM D5185(m)		304	260	254
Sulfur p	pm	ASTM D5185(m)		5180	3134	3223
Lithium p	opm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon p	opm	ASTM D5185(m)	>15	0	<1	<1
Sodium	opm	ASTM D5185(m)		0	<1	0
	opm	ASTM D5185(m)	>20	0	<1	0
FLUID CLEANLINE	SS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	▲ 10521	△ 30306	1501
Particles >6µm		ASTM D7647		▲ 2292	10967	231
Particles >0μm		ASTM D7647	>160	110	▲ 1229	17
Particles >14μm		ASTM D7647		23	330	5
Particles >38µm		ASTM D7647	>40	2	7	1
Particles >71um				0		
Particles >71µm		ASTM D7647		0	0 22/21/17	18/15/11
Particles >71µm Oil Cleanliness FLUID DEGRADAT		ISO 4406 (c)	>3 >19/17/14 limit/base	0 <u>21/18/14</u>	22/21/17 history1	18/15/11 history2

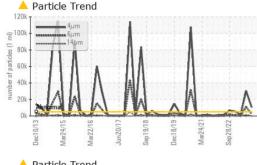
Acid Number (AN)

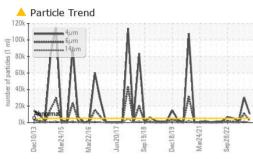
mg KOH/g ASTM D974*

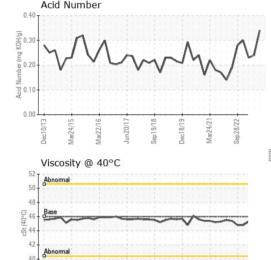
0.24 0.23 Contact/Location: Bob Abell - CAN52CAM

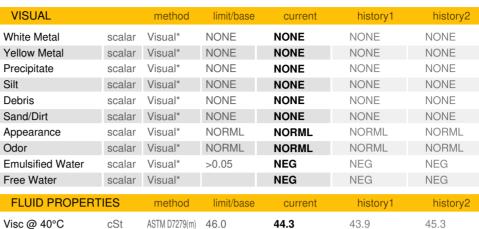


OIL ANALYSIS REPORT



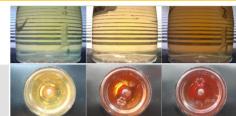


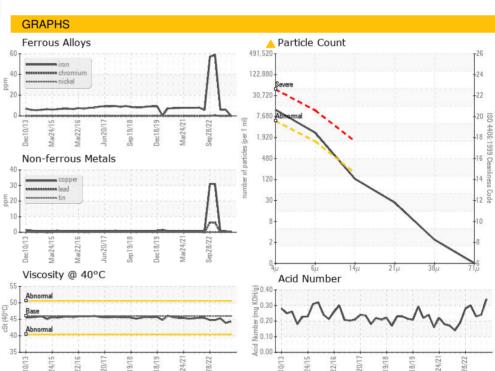




SAMPLE IMAGES limit/base history1 history2 method current

Color







CALA ISO 17025:2017 Accredited

Laboratory

Laboratory Sample No. Lab Number **Unique Number** Test Package

Mar24/21

Sep 28/22

: WC0837270 : 02587598 : 5656664

Bottom

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CANADIAN GENERAL TOWER LTD. Received Diagnosed

: 06 Oct 2023 : 10 Oct 2023 : Wes Davis Diagnostician

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

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

: IND 2

Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.