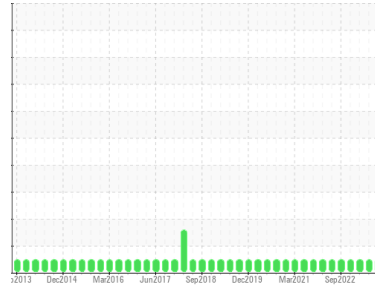




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**Plastisol Line**  
 Machine Id  
**Menzel Hydraulic Pump (S/N 59-0474)**  
 Component  
**Hydraulic System**  
 Fluid  
**SUNOCO SUNVIS 846 ISO 46 (20 GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

### Fluid Condition

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

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>WC0837269</b>	WC0808263	WC0744094
Sample Date	Client Info	<b>04 Oct 2023</b>	07 Jul 2023	31 Mar 2023
Machine Age	hrs Client Info	<b>0</b>	0	0
Oil Age	hrs Client Info	<b>0</b>	0	0
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL

## WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Chromium ppm ASTM D5185(m)	>20	<b>0</b>	0	0
Nickel ppm ASTM D5185(m)	>20	<b>0</b>	0	0
Titanium ppm ASTM D5185(m)		<b>0</b>	0	0
Silver ppm ASTM D5185(m)		<b>&lt;1</b>	0	0
Aluminum ppm ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Lead ppm ASTM D5185(m)	>20	<b>2</b>	1	<1
Copper ppm ASTM D5185(m)	>20	<b>13</b>	13	13
Tin ppm ASTM D5185(m)	>20	<b>0</b>	0	0
Antimony ppm ASTM D5185(m)		<b>0</b>	0	<1
Vanadium ppm ASTM D5185(m)		<b>0</b>	0	0
Beryllium ppm ASTM D5185(m)		<b>0</b>	0	0
Cadmium ppm ASTM D5185(m)		<b>0</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2
Boron ppm ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Barium ppm ASTM D5185(m)		<b>&lt;1</b>	0	0
Molybdenum ppm ASTM D5185(m)		<b>0</b>	0	0
Manganese ppm ASTM D5185(m)		<b>0</b>	0	0
Magnesium ppm ASTM D5185(m)		<b>&lt;1</b>	<1	0
Calcium ppm ASTM D5185(m)		<b>33</b>	34	34
Phosphorus ppm ASTM D5185(m)		<b>338</b>	368	363
Zinc ppm ASTM D5185(m)		<b>385</b>	407	381
Sulfur ppm ASTM D5185(m)		<b>2465</b>	2559	2568
Lithium ppm ASTM D5185(m)		<b>&lt;1</b>	<1	<1

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185(m)	>15	<b>&lt;1</b>	<1	<1
Sodium ppm ASTM D5185(m)		<b>0</b>	0	0
Potassium ppm ASTM D5185(m)	>20	<b>0</b>	<1	0

## FLUID CLEANLINESS

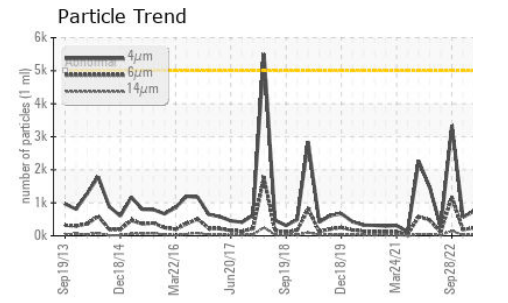
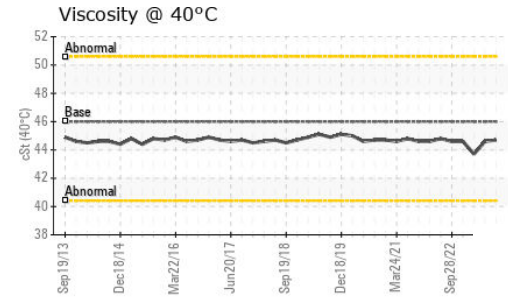
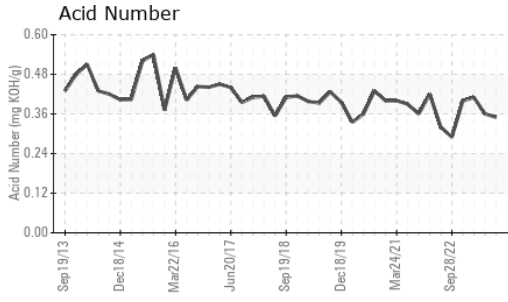
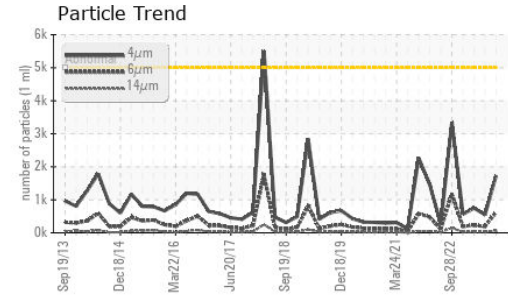
method	limit/base	current	history1	history2
Particles >4µm ASTM D7647	>5000	<b>1731</b>	548	749
Particles >6µm ASTM D7647	>1300	<b>630</b>	193	231
Particles >14µm ASTM D7647	>160	<b>58</b>	32	28
Particles >21µm ASTM D7647	>40	<b>14</b>	9	9
Particles >38µm ASTM D7647	>10	<b>2</b>	1	1
Particles >71µm ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness ISO 4406 (c)	>19/17/14	<b>18/16/13</b>	16/15/12	17/15/12

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g ASTM D974*		<b>0.35</b>	0.36	0.41



# OIL ANALYSIS REPORT

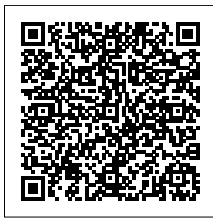
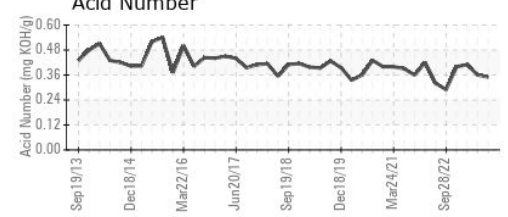
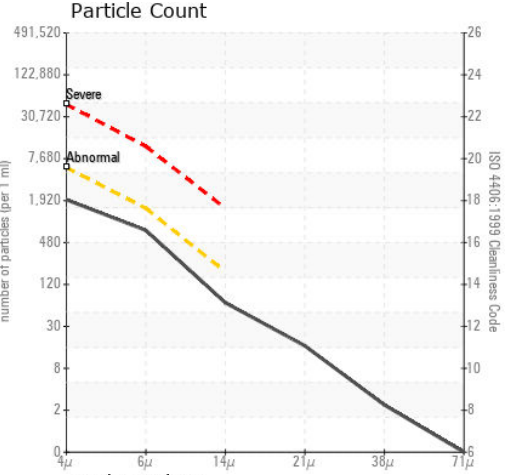
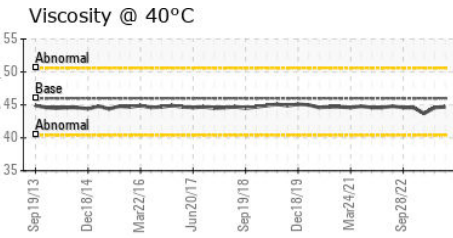
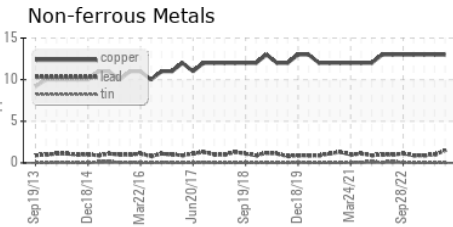
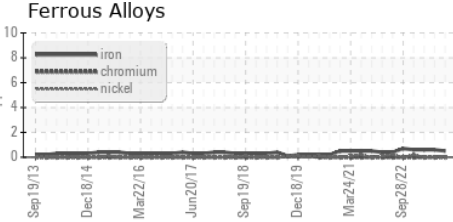


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.05	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	46.0	44.7	44.6

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **CANADIAN GENERAL TOWER LTD.**  
**Sample No.** : WC0837269 **Received** : 06 Oct 2023 52 MIDDLETON STREET, P.O. BOX 160  
**Lab Number** : 02587599 **Diagnosed** : 10 Oct 2023 CAMBRIDGE, ON  
**Unique Number** : 5656665 **Diagnostician** : Wes Davis CA N1S 2R4  
**Test Package** : IND 2

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.  
 Validity of results and interpretation are based on the sample and information as supplied.