

INVOICE STATEMENT FORM

Invoice from Consultant: CENTRIFUGES UNLIMITED INC.
605 COLBY DRIVE, WATERLOO, ON N2V 1A1

Date: JULY 20, 2022 Invoice No: _____

Invoice to: HENDERSON BREWING COMPANY INC
128 A STERLING ROAD
TORONTO, ONTARIO M6R 2B7

Reported to: STEVE HIMEL P.O. # 2022-CENT Job # SO#22-1535

Locations Worked: WATERLOO SHOP/ PLANT

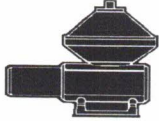
Dates Worked: MAY 6, 2022 TO JULY 4, 2022

4.0	Reg. Hrs. Shop	@	\$ 160.00	per Hr.	\$	640.00
9.5	Reg. Hours Plant	@	\$ 160.00	per Hr.	\$	1,520.00
	OT hours Plant	@	\$ 200.00	per Day	\$	-
12.0	Reg. Hrs. Travel	@	\$ 95.00	per Hr.	\$	1,140.00
	OT Hrs. Travel	@	\$ 100.00	per Hr.	\$	-
3	Days Meals	@		per Day	\$	168.11
666	Kilometers	@	\$ 0.95	per km	\$	632.70
	Vehicle Rental	@		per Day	\$	-
	Accommodations	@		per Day	\$	-
9.5	2nd Man	@	\$ 110.00	per Hr.	\$	1,045.00
				Airfare	\$	-
				Cab Fare and/or Parking	\$	-
Misc. Expenses	<u>EMERGENCY SERVICE TO VNPX 507</u>					
Misc. Expenses	<u>AND SHOP REPAIR</u>					
Misc. Expenses	<u>CLEAN TAPERED BORE IN BOWL BOTTOM</u>					\$ 761.33
Parts- Onsite	<u>SEE ATTACHED LISTING</u>					\$ 1,772.55
Parts - shop	<u>SEE ATTACHED LISTING</u>					\$ 14,201.96
	TOTAL OF THIS INVOICE					\$ 21,881.65



applicable taxes extra

SEE REPORT FOR DETAILS ON SERVICE



FIELD SERVICE REPORT

JOB NO: SO#22-1535
CUSTOMER: HENDERSON BREWING COMPANY INC
MACHINE: ALFA LAVAL VNPX 507 SGD-31
SERIAL NO. 4179970
BOWL TYPE CLARIFIER
PRODUCT BEER

MACHINE CONDITION:

P F G E *

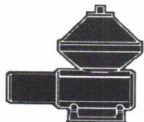
INLET - OUTLET			X		
PUMP ASSEMBLY			X		
BOWL		X			
WATER CONTROL			X		
FRAME			X		

ACTION TAKEN:

Y N

INLET - OUTLET		X		
PUMP ASSEMBLY		X		
BOWL		X		
WATER CONTROL			X	
FRAME		X		

*see attached page for comments



CENTRIFUGES UNLIMITED INC.

Date: May 6, 2022

CALL FROM PLANT - PROBLEMS WITH ALFA LAVAL VNPX 507

START TIME

ARRIVED AT: 8:30 A.M.

MACHINE LOCKED OUT YES

INLET-OUTLET:

DISMANTLE, CLEAN.

COMMENTS--

IN GOOD SHAPE CARBON SEALS SEEM TO HAVE WORN OVERTIME BUT NOT DETRIMENTAL TO OPERATION.

PUMP ASSEMBLY:

DISMANTLE, CLEAN AND RESEAL

COMMENTS--

BOWL WAS VIBRATING AT TOP SPEED THE PUMPS LOOSEMED AND CAUSED DAMAGE TO BOWL TOP AND THE BOTTOM OF PUMPS. BROUGHT PUMPS BACK TO SHOP TO CLEAN UP.

BOWL ASSEMBLY

DISMANTLE, CLEAN AND RESEAL

BOWL HEIGHT MEASURED AT: 19MM

COMMENTS--

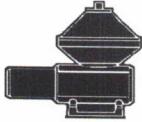
BOWL WAS CLEAN. DID NOT TOUCH BOWL AT THIS TIME.

FRAME

COMMENTS--

WATER LEAKED INTO OIL DUE TO SEAL FAILURE. THIS CAUSED BEARINGS TO FAIL AND HIGH VIBRATION IN MACHINE.

Work time: 3 hrs; Travel: 4 hrs ; Mileage: 222 kms



CENTRIFUGES UNLIMITED INC.

Date: May 9, 2022

START TIME

ARRIVED AT: 12:30 P.M

MACHINE LOCKED OUT YES

**ARRIVED ON SITE TO REINSTALL SPINDLE.
WE DID A MINOR SERVICE ON BOWL CHANGING ALL SEALS AND GASKETS.
AFTER FURTHER INSPECTION THE BOWL NAVE WAS DAMAGED AND HAD
BEEN SPINNING ON SPINDLE. HAD TO REMOVE BOWL AS IT DID NOT
FIT ON SPINDLE ANYMORE. BROUGHT BOWL AND SPINDLE BACK TO
SHOP FOR MACHINING AND TO MAKE NEW FITS.

Work time: 3.5 hrs; Travel: 4 hrs ; Mileage: 222 kms

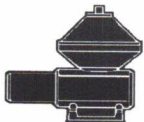
Date: July 4, 2022

START TIME

ARRIVED AT: 10:30 A.M

MACHINE LOCKED OUT YES

**RETURNED WITH NEW SPINDLE WITH NEW BEARINGS INSTALLED.
BOWL WAS MACHINED TO FIT NEW SPINDLE TO ENSURE BEST FIT.
DID FULL INSPECTION AND INSTALLED SPINDLE WITH NEW OIL
IN FRAME. INSTALLED BOWL AND ENSURED THAT IT FIT CORRECTLY
WITH SPINDLE NUT. NO ISSUES WERE DETECTED AND WENT AHEAD
AND INSTALLED MACHINE FULLY ALONG WITH NEW CARBON SEALS.
RAN MACHINE FOR ONE HOUR ON WATER TESTING WITH OPERATOR.
SHOOTS WELL AND CLOSES WELL. MACHINE RUNS SMOOTH WITH
PERFECT OPERATION.



CENTRIFUGES UNLIMITED INC.

MACHINE ASSEMBLY:

COMPLETED AT: 1:00 P.M.

a) RAMP UP TIME 8 MINUTES

b) VIBRATION 2.1 MM/S

c) FILLED BOWL AND COMPLETED MANUAL DESLUDGE
YES

d) MOTOR AMPS ON START: 8

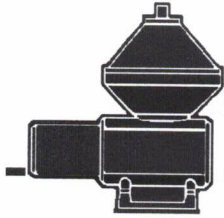
MOTOR AMPS NO LOAD: 6

MOTOR AMPS DESLUDGE: 11

Work time: 3 hrs; Travel: 4 hrs ; Mileage: 222 kms

DATE: JULY 6, 2022

TECHNICIANS: ERROL SINGH, ADAM ZID & CEDRIC SARRASY



CENTRIFUGES UNLIMITED INC.

FIELD REPAIR PARTS

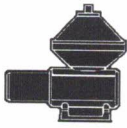
JOB NO. SO#22-1535/ SO#22-1126
 MACHINE NO ALFA LAVAL VNPX 507
 CUSTOMER HENDERSON BREWING COMPANY INC
 LOCATION TORONTO, ONTARIO

QTY	PART NUMBER	DESCRIPTION	PRICE EACH	TOTAL
Frame:				
1	CUA223406-27	O RING	\$4.36	\$4.36
1	CUA223406-27	O RING	\$4.36	\$4.36
1	CUA542392-02	SEAL RING	\$23.18	\$23.18
Machine Top:				
1	CUA223412-45	O RING	\$26.96	\$26.96
1	CUA223412-29	O RING	\$8.10	\$8.10
1	CUA260168-36	O RING	\$2.35	\$2.35
1	CUA260190-05	O RING	\$50.40	\$50.40
1	CUA223406-43	O RING	\$4.20	\$4.20
1	CUA223406-43	O RING	\$4.20	\$4.20
Inlet / Outlet:				
1	CUA564044-42G	O RING	\$3.93	\$3.93
1	CUA223406-16	O RING	\$1.00	\$1.00
1	CUA223406-16	O RING	\$1.00	\$1.00
1	CUA567772-03G	O RING	\$56.77	\$56.77
Drive:				
1	CUA260169-49	FLAT BELT	\$216.34	\$216.34
Bowl:				
1	CUA2234121-40	O RING	\$3.65	\$3.65
1	CUA547963-07	RECTANGULAR RING	\$49.16	\$49.16
1	CUA223412-15	O RING	\$10.05	\$10.05
1	CUA223412-30	O RING	\$5.05	\$5.05
1	CUA547963-08	RECTANGULAR RING	\$51.06	\$51.06
3	CUA547993-01	VALVE PLUG	\$6.75	\$20.25
1	CUA547963-06	RECTANGULAR RING	\$18.15	\$18.15
1	CUA223412-48	O RING	\$11.70	\$11.70
1	CUA223412-30	O RING	\$5.05	\$5.05
1	CUA546198-25	O RING	\$5.85	\$5.85

QTY	PART NUMBER	DESCRIPTION	PRICE EACH	TOTAL
Bowl Cont:				
1	CUA547963-05	RECTANGULAR RING	\$127.21	\$127.21
1	CUA223406-14	O RING	\$3.33	\$3.33
1	CUA223406-40	O RING	\$4.65	\$4.65
1	CUA547728-01	SEAL RING	\$188.73	\$188.73
1	CUA546198-15	O RING	\$11.23	\$11.23
1	CUA223412-30	O RING	\$5.05	\$5.05
1	CUA567772-02G	O RING	\$67.23	\$67.23
1	CUA567772-01G	O RING	\$67.42	\$67.42
Machine Bottom:				
2	CUA9876	BEARING	\$325.96	\$651.92
8	CUA223406-20	O RING	\$1.96	\$15.68
1	CUA223412-45	O RING	\$26.96	\$26.96
1	CUA223402-24G	O RING	\$3.04	\$3.04
1	CUA223406-26	O RING	\$1.26	\$1.26
1	CUA223406-20	O RING	\$1.96	\$1.96
Miscellaneous:				
1	ONTC100	PETRO GEL	\$9.76	\$9.76
			TOTAL	\$1,772.55

Done by: LOUISE BROWN

Date: JULY 7, 2022



SHOP SERVICE REPORT

JOB NO: SO#22-1535/WO#22-1126
CUSTOMER: HENDERSON BREWING COMPANY INC
MACHINE: ALFA LAVAL VNPX 507 SGD-31
SERIAL NO. 4179970
BOWL TYPE CLARIFIER
PRODUCT BEER

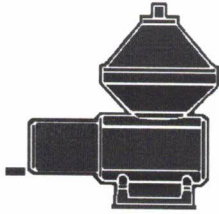
COMMENTS: SHOP REPAIR

Date: May 9/22

- * INSPECT NEW SPINDLE AND TEST FIT INTO BOWL NAVE FIT
- * REBUILD VERTICAL ASSEMBLY
- * CHANGE CARBON SEALS
- * CLEAN BOWL BOTTOM

shop time: 4hrs

TECHNICIAN: ADAM ZID



CENTRIFUGES UNLIMITED INC.

SHOP REPAIR PARTS

JOB NO. SO#22-1535/ SO#22-1126

MACHINE NO ALFA LAVAL VNPX 507

CUSTOMER HENDERSON BREWING COMPANY INC

LOCATION TORONTO, ONTARIO

QTY	PART NUMBER	DESCRIPTION	PRICE EACH	TOTAL
1	CUA547831-01G	BOWL SPINDLE	\$8,195.07	\$8,195.07
1	CUA567756-01G	SEAL RING	\$2,530.21	\$2,530.21
1	CUA567772-01G	O RING	\$71.26	\$71.26
1	CUA567772-02G	O RING	\$71.47	\$71.47
1	CUA567772-03G	O RING	56.77	\$56.77
1	CUA567773-01G	STATIC SEAL	\$3,142.78	\$3,142.78
1	ONTC103	GEAR OIL EP220	\$134.40	\$134.40
			TOTAL	\$14,201.96

Done by: LOUISE BROWN

Date: JULY 7, 2022