

QR7 Oracle SO#: **INSPECTION AND TEST REPORT - PSV / PRV** SO#: 0700 - 52700 . 1 . 1 Revision: 34-4620

Customer: CNRL District: Location: CLEARHILLS PLANT CUST PO#: TA101217 Date: JAN.24/12

S.R.#: 52700 Repair#: 140591 CST Tag #: BOILER # 2 PCI ID: C-343 Assoc. Doc #: N/A Sales Code

Customer Instructions: **REPAIR RUSH** Contact: **SOUK** CC#: _____

Requested Completion Date: **JAN.24/12** A#: **224050** LSD: **16-11-88-13W6** Phone: **780-518-9978**

Make: **CONSOLIDATED** Model: **1905LC/PI-T** S/N: **TL14895** Shop # _____ CRN#: **OGO449.2**

Size: **3** In **L** Orf. **4** Out End Type: **RF** Cap Assy.: Open Closed Lift Lever Adj. Screw Meas. **0.439**

Visual Condition: Good Fair Poor Fouling Dirty Plugged Condition Rating: New Routine Minor Major BER

Seal Condition: Top: **GOOD** Bottom: **GOOD** Insignia: **UVL** Last Service Date: _____ Data Plate Condition: **GOOD**

Op. Temp.: _____ C Capacity: **24339 LBS/HR.** Code Symbol: V UV HV NB None Other

Set Pressure: **150** **1034** Back Pressure: _____ Cold Differential Set: **150** **1034** Info. Verification: **DK**

psig kpag psig kpag psig kpag

PRE TEST

YES Set Pressure: _____ psig _____ kpag Tested By: _____ Testing Medium: _____

NO Relieve Press.: _____ psig _____ kpag Reseat Press.: _____ psig _____ kpag No Reseat: _____

Comments: 1ST: _____ psig _____ kpag 2ND: _____ psig _____ kpag 3RD: _____ psig _____ kpag Leakage Rate: _____ BPM

PASS
 FAIL

LABOUR: Dismantle: DK Inspection: DK Reassemble: DK

SWI 4043

| ITEM | DESCRIPTION |
|------|---|
| 1 | Recondition & Test |
| 2 | Priority Rate |
| 3 | Certification Test Only |
| 4 | Pre Pop Test |
| 5 | Back Pressure Test |
| 6 | Bellows Test |
| 7 | Cap Assembly <input type="checkbox"/> Mild <input type="checkbox"/> Subst <input type="checkbox"/> Sev |
| 8 | Repack Lift Lever |
| 9 | Adjusting Screw / Nut <input type="checkbox"/> Mild <input type="checkbox"/> Subst <input type="checkbox"/> Sev |
| 10 | Bonnet |
| 11 | Spring / Number |
| 12 | Spring Buttons |
| 13 | Spindle / Stem <input type="checkbox"/> Mild <input type="checkbox"/> Subst <input type="checkbox"/> Sev |
| 14 | Stem Retainer <input type="checkbox"/> Mild <input type="checkbox"/> Subst <input type="checkbox"/> Sev |
| 15 | Guide <input type="checkbox"/> Mild <input type="checkbox"/> Subst <input type="checkbox"/> Sev |
| 16 | Bellows |
| 17 | Ring Pin |
| 18 | Blowdown Ring(s) |
| 19 | Disc Holder <input type="checkbox"/> Mild <input type="checkbox"/> Subst <input type="checkbox"/> Sev |
| 20 | Disc <input type="checkbox"/> Mild <input checked="" type="checkbox"/> Subst <input type="checkbox"/> Sev |
| 21 | Nozzle <input type="checkbox"/> Mild <input checked="" type="checkbox"/> Subst <input type="checkbox"/> Sev |
| 22 | Ball Keeper |
| 23 | Keeper Seal |
| 24 | Ball |
| 25 | Ball / Seat Assembly |
| 26 | Seat Frame |
| 27 | Body |
| 28 | Gaskets |
| 29 | Inlet <input type="checkbox"/> Mild <input type="checkbox"/> Subst <input type="checkbox"/> Sev |
| 30 | Outlet <input type="checkbox"/> Mild <input type="checkbox"/> Subst <input type="checkbox"/> Sev |
| 31 | Lap Nozzle to Base |

CONDITION CODES

A - Good
B - Bent
C - Broken
D - Clean
E - Cracked
F - Collapsed
G - Corroded Mild
H - Corroded Severe
I - Deposits Light
J - Deposits Heavy
K - Eroded
L - Galled
M - Incorrect
N - Inoperable
O - Missing
P - Out of Tolerance
Q - Pitted
R - Plugged
S - Poor
T - Marked
U - Scored/Scratched
V - Leaks
W - Requires Replacing
X - Requires Re-Aluminizing
Y - Seized
Z - Worn

WORK CODES

1 - Replaced
2 - Renew Next Repair
3 - Lapped & Machined
4 - Machined
5 - Lapped
6 - Polished
7 - Re-Aluminized
8 - Left Alone
9 - Repaired
10 - Clean & Use
11 - Welded
12 - N/A

INTERNAL CONDITIONS See SWI# 4043 on the left of this document for definitions.

| COND. CODES | WORK CODES | QTY | ITEM | DESCRIPTION | QTY | PCI P.O. # |
|-------------|------------|-----|------|---------------------------|-----|------------|
| | | 1 | 32 | | | |
| | | 1 | 33 | | | |
| | | | 34 | | | |
| | | | 35 | | | |
| | | 1 | 36 | Duplicate Tag (SPM 3.5) | | |
| | | | 37 | Sub Contractor | | |
| A | 10 | | 38 | Cap Assembly | | |
| A | 10 | | 39 | Lift Lever | | |
| A | 10 | | 40 | Adjusting Screw / Nut | | |
| Q | J | 10 | 41 | Bonnet | | |
| Q | J | 10 | 42 | Spring / Number | | |
| J | Z | 1 | 43 | Spring Buttons | 2 | 1008979 |
| A | 10 | | 44 | Spindle / Stem | | |
| | | | 45 | Stem Retainer | | |
| A | 10 | | 46 | Guide | | |
| | | | 47 | Bellows | | |
| A | 10 | | 48 | Ring Pin | | |
| A | 10 | | 49 | Blowdown Ring | | |
| A | 10 | | 50 | Disc Holder | | |
| U | 5 | | 51 | Disc | | |
| U | 5 | | 52 | Nozzle | | |
| | | | 53 | Ball Keeper | | |
| | | | 54 | Keeper Seal | | |
| | | | 55 | Ball | | |
| | | | 56 | Ball / Seat Assembly | | |
| | | | 57 | Seat Frame | | |
| Q | J | 10 | 58 | Body | | |
| W | Z | 1 | 59 | Gasket Set | 1 | STK |
| A | 10 | | 60 | Reset Tag (SPM 3.3 ; 3.4) | | |
| A | 10 | | 61 | Shop Supplies | 1 | |
| | | | 62 | Hazardous Waste Disposal | 1 | |

Additional: Cleaning Lapping Nozzle Lapping Disc Pipe Fitting for Reassembly & Test Recommended Replacements

- BONNET AND BODY HAD HEAVY DEPOSITS DUE TO CORROSION. - DISC AND NOZZLE AT MIN. DIMENSIONS AND WILL HAVE TO BE REPLACED NEXT SERVICE

POST ASSEMBLY INSPECTION & SIGN OFF (Refer to QR8 #14): DANIEL KOPPEL DATE: Jan.24/12 NEW MODEL#: _____

MEASMT. DATA

IM&T Equipment (REF. SPM 05) Linial# **3003359.12** Pressure# **3003140** Test Bench# **3005510**

| Min. Man. Specified Dimensions | Dimensions As Found | Dimensions After Machining | Action Taken |
|---|---|-----------------------------|---|
| Disc Ht. _____ Step 0.0140 | Disc Ht. _____ Step 0.0150 | Disc Ht. _____ Step _____ | <input checked="" type="checkbox"/> Accept <input type="checkbox"/> Machine |
| Nozzle Ht. 0.5620 Step 0.0250 | Nozzle Ht. 0.0564 Step 0.0260 | Nozzle Ht. _____ Step _____ | <input checked="" type="checkbox"/> Customer Review |

TEST DATA

Set Point: Definition: **POP** Tolerance: 3% Set Using: Air Nitrogen H2O Air / H2O Lock Nut Secured

Set Pressure Change: Yes No New Spring Non Code Repair QR018B Item #: _____ Ring Pin Torqued

Set Pressure: **150** psig **1034** kpag QR018C Item #: _____ Lift Lever Ass'y Secured

Back Pressure: _____ psig _____ kpag Capacity: **24339 LBS/HR.** Service Interval: **12** Months Date: **JAN.24/12**

Cold Diff. Set: **150** psig **1034** kpag

Bellows Test @: _____ psig _____ kpag Reseat: _____ Ring Setting: Upper: _____ Tested By: **DK**

Back Press. Test: **100** psig _____ kpag Blowdown: _____ Lower: **-6**

Leakage Rate: **0** BPM Ends Covered Appearance Packing Slip Witness: **PC**

Comments: **GOOD ZERO LEAKS** Painting Tagging CMT - 2114 Final Inspection: **DK**