

1.1-FRM-001VS Visual External Inspection Report

| | IV | IANAGEI | MENT | r syst | EMS | Report | #: | | PSV S | Servi | | R A | vail. 🗷 vail. 🗷 ified 🗷 | Y□N | | ⊠II | nstallation | ⊠ External ∑ | ≰ Internal |
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| Date: | 2022-05-1 | 6 | | | WO #: | V-0061 | | | Proc Us | sed. | Cat 1 - Un | | | | | | R | ec. Insp. Inte | rval· 3 |
| 24.0. | | lp ISI-PVPI | P Certi | | | | API 570 | #45288 | Radiogra | | | | 1 | | | | ļi V | 56. IIISP. IIIC | i vai. |
| Client: | Lyons Pro | duction Se | rvices | | | | | | Heat Tre | | | | Yes | | | | | | |
| Coordinator: | Dave Mac | donald | | | | | | | | | ard Numl | ner. | | | | | | | |
| Region: | Alberta, N | .E. BC | | | Δrea: | Peace | | | Notes: | Вос | ira rtairii | JOI. | | | | | | | |
| Facility: | Lyons Yar | d | | | / li Cu. | | | | | | or service a | | of inspe | ection. | | | | | |
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| Location, Lob | | | | | | | | | | | | | | | | | | | |
| Description: | | el □Exc | | | | | | | | | | | | | | | | | |
| Service Fluid: | | et ⊠ Sou | ır Flu | | | | | | | | | | | | | | | | |
| Unit Name / #: | SS-742 | | | E | quip#: | SS-742 | | | | | | | | | | | | | |
| Equip. Name: | Horizontal | Separator | | | | | | | | | | | | | | | | | |
| Jurisdiction #: | 0489850 | | | | CRN: | P7055.21 | | | | | | | | | | | | | |
| Manufacturer: | Dynacorp | Fabricators | | | | | | | | | | | | | | | | | |
| Year Built: | 2004 | | S/N | : 1J1668 | 3 | | | | | | | | | | | | | | |
| Components: | Diame | ter Len | igth | Materi | al <u>N</u> | ominal t | <u>CA</u> | | | | | | | Con | ment | | | | |
| Shell: | 54" | 20' | 5 | SA-516-7 | ON 1.12 | 5" | 0.0625' | No Conce | erns | | | | | | | | | | |
| Head: | 54" | 2:1 | 5 | SA-516-7 | ON 1.07 | 7" | 0.0625" | No Conce | erns | | | | | | | | | | |
| Channel: | | | | | | | | | | | | | | | | | | | |
| Tube: | | | | | | | | | | | | | | | | | | | |
| Other: Coil | 4" NPS | NS | | SA-333-6 | | | | No Conce | | | | | | | | | | | |
| | | PS | V Da | ta: [| | apacity | Verifie | d: □Y ∑ | ¶N Blo | ock V | alve(s) I | nsta | lled: E | ∃Yes I | ₫No | Car-se | ealed Oper | n: □Yes □N | o 🛮 N/A |
| Zones: | NADNAT | Daainn | T N 4 | A \ A / D | Set | T = =:# | | NAI-I | | 1 | DC) / C | חאו | C = = i = i | NI | | 04 | Cit. | C C- | Cami Data |
| Chall Cida | -50 F | Design 200 F | | | Press 40 PSI | Tag# | 3 108113 | Model 42-61-60-0 | | Manf. aylor | PSV C 0G01316.2 | | 7202-1 | Numbe | r In. | 3" | Capacity 17574 SCFM | Serv. Co. | Serv. Date 2022-05-12 |
| Shell Side: | | 2001 | 740 | 71 01 7 | 40 1 01 | 00-7420 | 3300113 | 1 2-01-00-0 | , , | ayioi | 0001316.2 | 20 | 7202-1 | | | 5 | 17374 OOI W | Offiniou | 2022 00 12 |
| Tube Side: Other: | | | | | | | | | | | | | | | | | | | |
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| Orientation: | | □Ver. | | ndatio | | | | | el 🗆 Timl | bers | ⊠Steel | _ | | · No Con | | Conditi | ion: Good | | |
| Orientation: | ⊠Sado | lle: | ⊠Se | eal-wel | ded | □Free | e to mo | | el □Timl | bers | ⊠Steel | Со | ndition | : No Con | | Conditi | ion: Good | | |
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Additional notes are attached:□

Item **⊠**is

□is <u>NOT</u>

suitable for service.

Inspector's Signature:

ure:











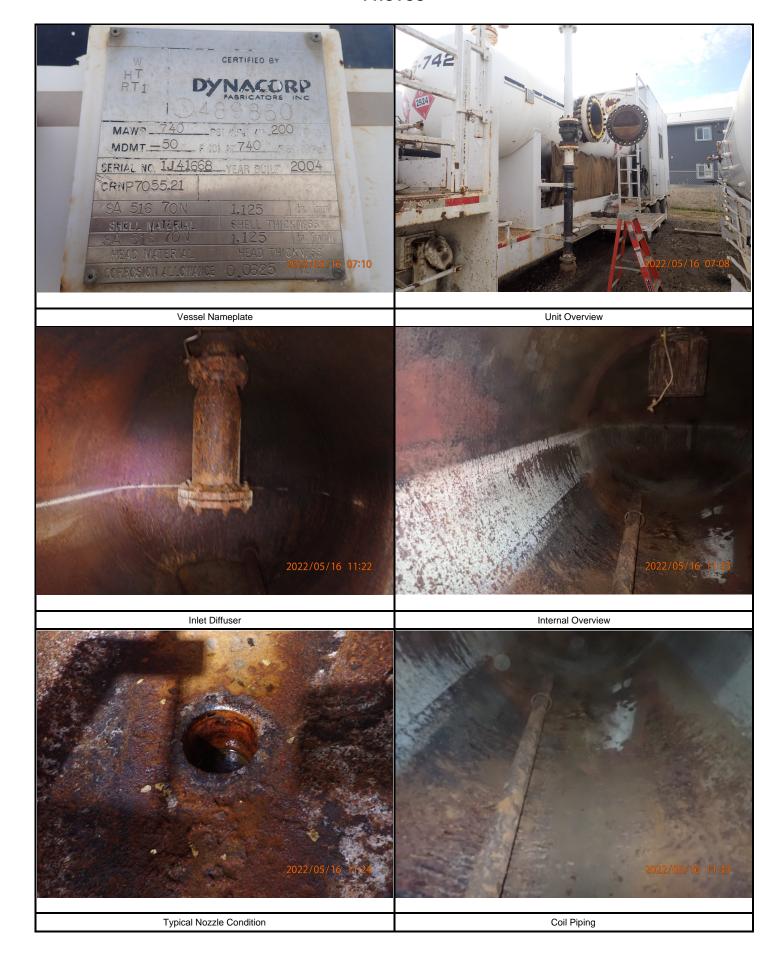
4.4-FRM-002VS Visual Internal Inspection Report

Apr. 2021

| Date: | 2022-05-16 | WO #: V-0064 | Proc. Used: Cat 1 - Unfired Separator |
|--------------------------------|--|--|--|
| Inspected By: | Dwight Colp ISI-PVPP Cert# | 000692, API 510 #43558, API 570 #4528 | Notes: |
| Client: | Lyons Production Testing | | |
| Coordinator: | Dave MacDonald | | |
| Region: | Alberta, N.E. BC | Area: Peace | |
| Facility: | Portable | | |
| Location, LSD | Portable | | |
| Description: | ⊠ Vessel □Exchanger | · □Tank □Heater | |
| Service Fluid: | □Sweet ⊠ Sour Fluid | | |
| Unit Name / #: | | Equip#: SS-742 | |
| | Horizontal Separator SS-742 | · · · · · | |
| Jurisdiction #: | | CRN: P7055.21 | |
| | Coral Oilfield Services | - | |
| | | N:1J41668 | |
| | | | cessible shell and head surfaces, nozzles, welds, etc. |
| Scope: | 71 viouai internal (VI) in | opocion was ponermed on all ass | sociale chair and hode canacce, notice, see. |
| | Gasket Surfaces: | ⊠Compliant with code | Comment: |
| Manway: | Manway Nozzle: | No pitting, erosion, etc. | Comment: |
| | □Coated | □Continuous and well-adhered | Comment: |
| Chall and | Uniform Corrosion: | ☑Insignificant amount | Comment: |
| Shell and Head | Pitting Corrosion: | None noted ■None noted | Comment: |
| Surfaces: | Erosion: | None noted None noted | Comment: |
| | Mechanical Damage: | ■None noted | Comment: |
| | Uniform Corrosion: | ☑Insignificant amount | Comment: |
| Welds: | Pitting Corrosion: | ■None noted | Comment: |
| weius. | | ⊠None noted | |
| | Welding Defects: ☑NDT was performed | | Comment: |
| | MIND I was performed | I DV:PIIVIS | Type: □MPI (□WF □B&W □Dry) □LPI XUT □RT □Other: |
| NDT. | | · · | |
| NDT: | Extent: External Hea | ad, Shell and Piping | |
| NDT: | Extent: External Hea | ad, Shell and Piping s | 0 |
| | Extent: External Hea Results: No concern Obstructions: | ad, Shell and Piping s Mone noted | Comment: |
| NDT: | Extent: External Hea Results: No concern Obstructions: Corrosion: | ad, Shell and Piping s ⊠None noted ⊠None noted | Comment: |
| | Extent: External Hea Results: No concern Obstructions: Corrosion: Erosion: | ad, Shell and Piping s ⊠None noted ⊠None noted ⊠None noted | Comment: Comment: |
| | Extent: External Hear Results: No concern Obstructions: Corrosion: Erosion: Uortex Breaker | ad, Shell and Piping s ⊠None noted ⊠None noted ⊠None noted □Secure □Good condition | Comment: Comment: Comment: |
| | Extent: External Hear Results: No concern Obstructions: Corrosion: Erosion: Uortex Breaker Impingement Plate | ad, Shell and Piping s ⊠None noted ⊠None noted ⊠None noted □Secure □Good condition □Secure □Good condition | Comment: Comment: Comment: Comment: |
| | Extent: External Hear Results: No concern Obstructions: Corrosion: Erosion: Uvortex Breaker Impingement Plate | ad, Shell and Piping s ■None noted ■None noted ■None noted ■Secure □Good condition □Secure □Good condition ■Secure □Good condition | Comment: Comment: Comment: Comment: Comment: Comment: No concerns |
| Nozzles: | Extent: External Hear Results: No concern Obstructions: Corrosion: Erosion: Uortex Breaker Ulmpingement Plate Internal Piping Demister | Mone noted Mone noted Mone noted Mone noted Mone noted Mone noted Secure □Good condition □Secure □Good condition MSecure ☑Good condition MSecure ☑Good condition | Comment: Comment: Comment: Comment: Comment: Comment: No concerns Comment: No Concerns |
| Nozzles: | Extent: External Hea Results: No concern Obstructions: Corrosion: Erosion: Uvortex Breaker Ulmpingement Plate Internal Piping Demister Heating Coil | ad, Shell and Piping S Mone noted Mone noted Mone noted Mone noted Secure □Good condition Secure □Good condition Mosecure □Good condition | Comment: Comment: Comment: Comment: Comment: Comment: No concerns Comment: No Concerns Comment: No concerns |
| Nozzles: | Extent: External Hear Results: No concern Obstructions: Corrosion: Erosion: Uortex Breaker Ulmpingement Plate Internal Piping Demister Heating Coil | Mone noted Mone | Comment: Comment: Comment: Comment: Comment: Comment: No concerns Comment: No Concerns Comment: No concerns Comment: No concerns |
| Nozzles: | Extent: External Hear Results: No concern Obstructions: Corrosion: Erosion: Uvortex Breaker Impingement Plate Internal Piping Demister Heating Coil Wier Inlet Diffuser | Mone noted Secure □Good condition □Secure □Good condition MSecure ⊠Good condition | Comment: Comment: Comment: Comment: Comment: Comment: No concerns |
| Nozzles: | Extent: External Hear Results: No concern Obstructions: Corrosion: Erosion: □Vortex Breaker □Impingement Plate 図Internal Piping 図Demister 図Heating Coil 図 Wier 図 Inlet Diffuser | Mone noted Mone noted None noted None noted Secure Good condition | Comment: Comment: Comment: Comment: Comment: Comment: No concerns |
| Nozzles: | Extent: External Hear Results: No concern Obstructions: Corrosion: Erosion: Uvortex Breaker Impingement Plate Internal Piping Demister Heating Coil Wier Inlet Diffuser | Mone noted Secure □Good condition □Secure □Good condition MSecure ⊠Good condition | Comment: Comment: Comment: Comment: Comment: Comment: No concerns |
| Nozzles: | Extent: External Hear Results: No concern Obstructions: Corrosion: Erosion: □Vortex Breaker □Impingement Plate 図Internal Piping 図Demister 図Heating Coil 図 Wier 図 Inlet Diffuser | Mone noted Mone noted None noted None noted Secure Good condition | Comment: Comment: Comment: Comment: Comment: Comment: No concerns |
| Nozzles: | Extent: External Hea Results: No concern Obstructions: Corrosion: Erosion: □Vortex Breaker □Impingement Plate 図Internal Piping 図Demister 図Heating Coil 図 Wier 図 Inlet Diffuser | Mone noted Mone noted None noted None noted Secure Good condition | Comment: Comment: Comment: Comment: Comment: Comment: No concerns |
| Nozzles: | Extent: External Hea Results: No concern Obstructions: Corrosion: Erosion: □Vortex Breaker □Impingement Plate 図Internal Piping 図Demister 図Heating Coil 図 Wier 図 Inlet Diffuser | Mone noted Mone noted None noted None noted Secure Good condition | Comment: Comment: Comment: Comment: Comment: Comment: No concerns |
| Nozzles: | Extent: External Hea Results: No concern Obstructions: Corrosion: Erosion: □Vortex Breaker □Impingement Plate 図Internal Piping 図Demister 図Heating Coil 図 Wier 図 Inlet Diffuser | Mone noted Mone noted None noted None noted Secure Good condition | Comment: Comment: Comment: Comment: Comment: Comment: No concerns |
| Nozzles: Attachments: | Extent: External Hea Results: No concern Obstructions: Corrosion: Erosion: □Vortex Breaker □Impingement Plate 図Internal Piping 図Demister 図Heating Coil 図 Wier 図 Inlet Diffuser | Mone noted Mone noted None noted None noted Secure Good condition | Comment: Comment: Comment: Comment: Comment: Comment: No concerns |
| Nozzles: Attachments: | Extent: External Hea Results: No concern Obstructions: Corrosion: Erosion: □Vortex Breaker □Impingement Plate 図Internal Piping 図Demister 図Heating Coil 図 Wier 図 Inlet Diffuser | Mone noted Mone noted None noted None noted Secure Good condition | Comment: Comment: Comment: Comment: Comment: Comment: No concerns |
| Nozzles: Attachments: | Extent: External Hea Results: No concern Obstructions: Corrosion: Erosion: □Vortex Breaker □Impingement Plate 図Internal Piping 図Demister 図Heating Coil 図 Wier 図 Inlet Diffuser | Mone noted Mone noted None noted None noted Secure Good condition | Comment: Comment: Comment: Comment: Comment: Comment: No concerns |
| Nozzles: Attachments: | Extent: External Hea Results: No concern Obstructions: Corrosion: Erosion: □Vortex Breaker □Impingement Plate 図Internal Piping 図Demister 図Heating Coil 図 Wier 図 Inlet Diffuser | Mone noted Mone noted None noted None noted Secure Good condition | Comment: Comment: Comment: Comment: Comment: Comment: No concerns |
| Nozzles: Attachments: Notes: | Extent: External Hear Results: No concern Obstructions: Corrosion: Erosion: Uvortex Breaker Impingement Plate Internal Piping Demister Heating Coil Wier Inlet Diffuser Inlet Diffuser Inlet Diffuser Inlet Diffuser | Mone noted None noted None noted None noted Secure Good condition | Comment: Comment: Comment: Comment: Comment: Comment: No concerns |
| Nozzles: Attachments: Notes: | Extent: External Hear Results: No concern Obstructions: Corrosion: Erosion: Uvortex Breaker Impingement Plate Internal Piping Demister Heating Coil Wier Inlet Diffuser | Mone noted None noted None noted None noted Secure Good condition | Comment: Comment: Comment: Comment: Comment: Comment: No concerns |













PRV INSPECTION AND TEST REPORT

BRANCH: Grande Prairie UVL ID#: 62779G

Work Order: W15005780 Customer PO#:

| | GRU | UP L | עו. | | | | • | | | | | | <u> </u> | ,,,,, | . 0,,, | | | | |
|-------------------|-----------------------|----------|--------------|-----------------|---------------|-----------|--------------------|---------|----------|------------------|-----------------|----------------------|----------|----------------------|--------------|-------------------------|-----------|-----------|------|
| Customer LY | ONS PRO | DUCTIO | N SERV | /ICES L | .TD | | | | | | Da | ate: 0 | 5/12/2 | 2022 | | | | | |
| Facility: G | RANDE-PI | RAIRIE | | L | SD : S | SS-742 | | | | | F | PSV L | ocatio | on: | | | | | |
| A#: | | | | V | essel | SN: | | | | | | | Cust | ld: | | | | | |
| Cust. Ref.: | | | | , | Valve | PO: | | | | | | PC |) LINI | E#: | | | | | |
| Cust. WO#: | | | | Cı | ust AF | FE#: | | | | | | Cost | Centro | e#: | | | | | |
| | | | | | | | VA | LVE | DATA | | | | | | | | | | |
| Man.: TAY | LOR | | Mod | el : 83J | 08113 | 342-61-6 | | | | Seri | al : 720 | 02-1 | | | | | Seat: S | SOFT | |
| Conn. Flan | iged | | | Inlet: | 3" 300 | RF | | Orif | fice:J | 0 | utlet: 3' | ' 150 F | RF | | | Va | cuum: | | |
| Set Press. 740 | PSI | | Back P | ress.: | N/A P | SI | | CD | TP: N/A | PSI | Te | mp: I | N/A F | | | Cap: | 17,574 | SCFM | |
| Lift Lever | | C | ap Asse | embly: (| Close | d | RFII | D: | | С | ode Sy | mbol: | : UV | | | - | CRN | #: 0G131 | 6.2C |
| | | | | | | CU | STOM | FR IN | ISTRUC | CTIONS | ; | | | | | | | | |
| Instructions: F | ull Service | 9 | | | | | J . O | | | | est Re | quire | d? | abla | | Reset | Require | ed? | |
| | | | | | | CC | ITION | ΟΝ Δ | S REC | | | • | | | | | | | |
| Visual Condition | . Foir | | | Doto B | loto C | Conditio | | | O IVEO | | loto of | loot o | orvio | | 05/20 | 010 | | | |
| Visual Condition: | : Fair <i>Top:</i> | Intact | | | tom: | | ii. Or | | signia: | UVL | Date of | | | | d: <i>Ir</i> | | | Outlet: | |
| Inlet: Rusty | • | | , | | | | | | • | | | | _ | | | | | Outlet. | Ш |
| iniet: Rusty | iniet | Plugged | : <u></u> | Ou | itiet: | Rusty | | | t Plugge | <i>a:</i> | nitiai ir | isp. s | ignon | 1 | Don | Menese | es | | |
| | | | | | | | | | EST 1 | | | | | | | | | | |
| Simmer: | | PSI Set | | | | 731 PS | l Rese | eat: | 627 PS | SI Leak a | ige: | | 5 BP | M Te | est Ga | uge: | GP5K- | 1/2 | |
| Tested By: Dua | ine Groth | , | Pretest (| Jomme | nts: | | Б | DETI | ECT 2 | | | | | | | | | | |
| Simmer: | | Sof | t Press: | | | | Rese | | EST 2 | Looks | | | | То | ot Co | | | GP5K- | 1/2 |
| Tested Bv: | | | retest (| Comme | nts: | | Kese | tal. | | Leaka | ige. | | | 16 | est Ga | uge. | | GF3K- | 1/2 |
| resieu by. | | • | TOTOGE | 301111110 | | <u></u> | MDON | ENITO | INSPE | CTION | | | | | | | | | |
| | | | | | | | | | 2 Medium | | | | | | | | | | |
| | | | | | | | | | | ., | , | | | | | Ne e | | | |
| | C | | _Z | C <u>A</u> | 琞 | RR . | s BR/ | 3RC | B | G G | _ | Mac | Ε. | Р | Re | Xt Z | | | |
| TEM | CLEAN | 인다 | RUSTY | CARBON | PITTED | CORRODED | VIBRATION SCALE | GROOVED | DENTED | GALLING | OTHER | Machined | Lapped | Polished | Replaced | Replace Next Service | | MMENTS | |
| | ź | <u> </u> | | ž | Ü | 8 | πŽ | | | ត 🖁 | 男 | | <u> </u> | | | | CO | MINIENIS | |
| DISC | | | 1 | | | | | T. | | | | $\overline{\square}$ | ш | $\overline{\square}$ | | | | | |
| NOZZLE | | | 1 | | | | | | | | | | | ᆜ | | | | | |
| CAP-LEVER ASSY | | | 1 | | | | | | | | | | Ш | Щ | | | | | |
| COMP SCREW and | | | 1 | | | | | | | | | | | | | | | | |
| AS FOUND: 67N | | AS LEFT: | | | | | | | | | | _ | _ | _ | | _ | | | |
| SPRING and BUTTO | ONS | | 1 | | | | | | | | | Щ | Ш | Ц | ш | | | | |
| SPINDLE / STEM | | | | | | | | | | | | | | <u> Ш</u> | | | | | |
| STEM RETAINER | | | | | | | | | | | | | | | | | | | |
| DISC HOLDER | | | | | | | | | | | | | Ш | Ш | | | | | |
| GUIDE / UPPER RIN | NG | | 1 | | | | | | | | | | | | | | | | |
| LOWER RING | | | | | | | | | | | | | | | | | | | |
| RING PIN(S) | | | | | | | | | | | | | | | | | | | |
| BELLOWS | | | | | | | | | | | | | | | | | | | |
| GASKET / SEALS | | | 1 | | | | | | | | 2 | | | | | | Т | ORN | |
| CONNECTION END | S | | 1 | | | 1 | | | | | | | | | | | | | |
| OTHER | | | | | | | | | | | | | | | | | | | |
| DISC: Min: | N/A | AC | :T - | | | NOZZL | E: Min | | N/ | A | ACT | - | | | SPRIN | NG NUI | MBER: | NO# | |
| Disassembly: | DJ McBrea | arty | | | | Inspe | ection: | Rob | Murdoch | า | | Re | easse | mbly: | : D | J McBr | rearty | | |
| | | | | | | | FIN | IAL T | EST | | | | | | | | | | |
| Test Medium: Ai | r | | | Simm | ner: | 737 PS | | | _ | Set Pres | sure: | 740 | PSI | | | | | | |
| Reseat: 58 | 88 PSI | | | | | Leak | age Acc | ceptab | le: √ | B.P. T | est: | 60 | PSI | | Va | acuum: | : | | |
| ADJ. RING SETT | ING (NOT | CHES): | Upper | •: | | | Lower: | - | _ | Test G | auge: | GP5K | -1/2 | | Set | Press | Def: P | OP | |
| | sper Pieza | - | | | | | | | Date Fin | | | | | | | | | | |
| | -poi i 102a | | | | | | | | | | 4. | | | | | | | | |
| ·· - F | 7 - | | _ | | | | _ | | PECTION | | | | | | | | | <i></i> | 7 |
| SEAL: Top: | | ttom: | E | nd Prote | | Installed | | | ed: ✓ | Palletize | a: 🔲 | Ship | Conta | ainer: | M | riex (| saskets . | Supplied: | _ |
| Final Inspection | n: DJ Mo | Brearty | | | Cus | tomer Ir | spectio | n: | | | | | | | | | | | |
| Comments: | | CTION: | | | _ | corrosic | n | | | | | | | | | | | | |
| | - SER | VICE RA | aiin(i·R | CULLIN | ⊢ | | | | | | | | | | | | | | |



PRV INSPECTION AND TEST REPORT

BRANCH: **Grande Prairie** UVL ID#: 81340G

Work Order: W15005780

Customer PO#:

| Customer Facility: A#: Cust. Ref.: Cust. WO#: | | NS PRO NDE-P | ODUCTIO RAIRIE | ON SER\ | \ | | PO: | | | | | | | P | | catio Cust | on: ld: E#: | | | | | |
|---|---------------------------------------|------------------------------|--------------------------|--|--------|----------------|--------------------|---------------|----------------------------------|---------|------------------------|-----|----------------|-----------------------------------|-----------------------|---------------|-------------------|------------|-------------------------------|-----------------|--------------|---------|
| Man.: Conn. Set Press. Lift Lever | TAYLO Thread 150 PS | ded | (| Mod Back F Cap Asse | | 1" MN N/A F | NPT PSI | | VAL | | | | Outl | 0394 et: 1" l Ten le Syn | FNPT | 0 F | | | | 582 8 | | 1316.2C |
| Instructions | : Full | Service | e | | | | Cl | JST | OME | RINS | TRUC | | | t Req | uired | ? [| V | | Reset | Requi | red? | |
| Visual Cond Seal Condit Inlet: Rusty | ion: | Fair Top: Inlet | Intact <i>Plugged</i> | l: 🗆 | Bo | ttom: | Conditi | | OITIO OK | Insi | REC gnia: Plugge | UVI | Dat | | itting | js Att | ache | | 019 n let: Menes | ses | Outlet: | |
| Simmer: Tested By: Simmer: Tested By: | Duane | 157 Groth | Se | t Press: Pretest (t Press: Pretest (| | | 161 P | | Resea | ETES | 142 PS | | akage akage | | | 3 BP | | est Ga | Ū | GP5K | -1/2 GP5k | (-1/2 |
| ITEM DISC | | CLEAN | OILY | RUSTY 1 | CARBON | PITTED | (O Like | | ONEI / 1 Min / 1 VIBRATION | | | | | OTHER | Machined 🔽 | Lapped [| Polished 🔰 | Replaced [| Replace Next Service | С | OMMENTS | |
| NOZZLE CAP-LEVER A COMP SCREV AS FOUN SPRING and E SPINDLE / ST STEM RETAIN | V and LC D:_29MM_ BUTTONS EM | | AS LEFT: | 1 1 1 29MM | _ | | | | | | | | | | | | | | | | | |
| DISC HOLDER GUIDE / UPPE LOWER RING RING PIN(S) BELLOWS GASKET / SEA CONNECTION | R ER RING ALS | | | 1 1 1 | | | | | | | | | | 2 | | | | | | | TORN | |
| OTHER DISC: : Disassembl | y : DJ | N/A McBrea | | CT - | | | NOZZI Insp | LE: pectio | | | N// e Groth | | , | ACT - | Re | asse | □ mbly | _ | NG NU DJ McB | MBER: rearty | : NO# | |
| Test Mediun Reseat: ADJ. RING S Tested by: | 110 SETTIN | | | Upper | Simi | mer: | 147 P | akage | FINA e Acce ower: | | _ ; | B.F | | | 150 F 60 I 65K- | PSI | | | acuum t Press | : S Def: | POP | |
| SEAL: 7 | | DJ Mo | cBrearty | | | Cus | installe stomer | ed: ✓ | _ | Painted | | | tized: | | Ship | Conta | ainer: | <u> </u> | Flex | Gaskets | Supplied: | |

PSV Service Reports reviewed, Passed Pre-pop

Contract Chief Inspector - Dwight Colp API 510 #43558, ABSA ISIPV-PP #000692



ALBERTA MUNICIPAL AFFAIRS

Alberta Boilers Safety Association 200, 4208 - 97 Street Edmonton AB T6E 5Z9

1# 489850

MANUFACTURER'S DATA REPORT FOR PRESSURE VESSEL

DÉCLARATION DE CONFORMITÉ DU CONSTRUCTEUR ION

| B :: 11 B :: 1 C | DECEARATION DE CONFORMITE DU CONSTRUCTE |
|--|---|
| Partial/ Partiel | D'APPAREILS SOUS PRESS |
| pon shipment of a pressure vessel, this form fully and correctly fille | |
| Contriance with the regulations under the Act, source the Act, | in must be mailed to the office of the Chief Inspector in the province of installation in |

aċ rdance with the regulations under the Act, governing the construction and installation of pressure vessels. Au moment de l'expédition d'un appareil sous pression, ce formulaire complété correctement, doit êtré envoye au bureau de l'inspecteur en chef de la province d'installation tel que prévu dans les règlements de la loi sur les appareils sous pression. Manufactured by Name and address of Manufacturer/ Nom et adresse du constructeur Construit par Dynacorp Fabricators Inc. 8600-92St. Grande Prairie, AB; T8V 7S3 Manufactured for Name and address of Purchaser or Consignee/ Nom et adresse du client ou de son représentant Construit pour Lyons Production Services; Box 327; Grande Prairie, AB; T8V 3A5 Ultimate owner Name and address! Nom et adresse Utilisateur Lyons Production Services; Box 327; Grande Prairie, AB; T8V 3A5 Location of installation Address/ Adresse Lieu d'installation Portable Pressure vessel/ Appareil Type/ Genre Overall Length/Longeur totale Serial No./ Nº de série Year built/Année de fabrication 54" 740psi Horizontal Test Vessel 1J41668 2004 Provincial Registration No. - C.R.N./N° d'enregistrement provincial - N.E.C. National Board No./ No National Board Drawing No./ N° de dessin P7055.21 5100-05 R00 The chemical and physical properties of all parts meet the requirements of material specifications of the A.S.M.E. Code. Les propriétés chimiques et physiques de toutes les composantes respectent les exigences des spécifications de matériaux de code ASME. ASME Division Addenda/Supplément Code case No. The design, construction and workmanship conform to CSA B51. ° de cas La conception, la construction et la façon sont conformes à ACNOR B51. Section VIII 1 A03 Manufacturer's partial data reports properly identified and signed by authorized inspectors have been furnished for the following items of the report, and attached to this Les rapports partiels du constructeur adqéuatement identifiés et signés par les inspecteurs authorisés ont été produits pour les items suivants du rapport, et attachés à ce rapport: ames of parts/ Nom de la composante Item No./ N□ d'item Manufacturer's Namel Nom du constructeur Identifying Stamp/ Estampe d'identification Shell/ Virole Longitudinal Joints Joints longitudinaux Corr. P.W.H.T. Girth Joints Number of Allow. Treitement therm Joints de circontérence courses Description Materia! Surépais. Thickness Diameter Nombre de Materiau Épaisseur de corr. Diametre Efficiency R.T. Time sections Type Temp. Туре Radiog Durée Radiog. SA516-70N 1.125" .0625" 54" ID 1 54"ID Shells Full 100% 1150F 68min 1 Fuli 2 Heads/ Tetes Corr. Crown Knuckle Ellipse Ratio Conical Hemisph Flat Side to Description Min. Thickn. Material Allow Radius Rapp. ellipse Apex Angle Radius Diameter Épals minim. Surep Rayon couron. Petit rayon Angle Ray. Hémisph Diam.plat Côte sous conique pression SA516-70N 54" Heads 1.077" .0625" 2:1 S.E. Concave Removable bolts used (describe other fastenings) Boulons amovible utilisés (décrire tout autre attache) Mat'l Spec./ Spéc. du mat. Grade Size/ Dimension Pressure - Temperature/ Pression - température Pressure Vessel Part Constructed for max, allowable working At max, temp. Min. Temp. (when less than Test pressure (hydro-pneumatic or combination)
Pression d'épreuvre (hydro-pneumatique ou Partie de l'appareil pressure Construit pour une pression maximale A une temp, max. -29°C) Temp. min. (inférieure à -29°C) combinaison) Vessei 740psi 200F -50F 1125psi

Mode d'attachement

Heating Surface Surface de chauffe

Location/ Endroit

Shell A&B

Head A

Shell A

Shell B

(Where and How! Méthode et endroit)
Welded to Shells A&B with repads

Shell A&B

Head B, Shell B

Attachment

Sketch/ Schéma

Corr. Allow.

Surépais, corrosion

Type (Straight or U) Type (Droit ou U)

> How attached

Genre d'attaches UW16.1c

UW16.1c

UW16.1c

UW16.1c

UW16.1c

UW16.1c

Attached/ Attaches

| Tubesheet/ Plaque tubula | aire | V | Material/ Matéri | au | Diame | ter/ Diam | | 489 Nominal T | hickness | Co |
|--|------------------------------------|-----------------------|-------------------------------------|-------------------------------|--|-------------------------------|----------------------------------|---|--|-----------------|
| | | | | | | | | Epaisseur | nominate | Su |
| Tube material/ Materiau (| des tubes | Ε | Diameter/ Diam | ètre | Nomin Épaiss | al Thickn e <i>ur nomi</i> | ess (gauge) nale (calibre) | Number/ A | lbre | Typ Typ |
| Jacket/ Chemise | | | - | | <u>- </u> | | | | | 1 |
| Type of jackel/ Genre de | chemise | | ket closure meture de chen | nise | Proo Pres | f Test sion d'ép | reuve | | g Surface e de chauffe |) |
| Safety Valve Outle | ts/ Soup | apes | de sûreté | · · · · · | | | | | | |
| Number/ Nombre 2 | Dimensio | on | | | Location/ | | Near top of I | lead R | | |
| Nozzles and Open | ings/ Tu | bului | es et ouve | rtures | | | Tour top or i | lead D | | |
| Purpose/ But | | ımber ombre | Dimension | 7 | уре | | Material Matériau | Nominal Thickness Épaisseur nominale | Reinforce material Matériau de renfor | |
| Inlet/Outlet | 2 | | 6" | RFWN | | SA333 | 3-6 | .864" | de remor | • |
| Steam coil | 1 | | 4" | RFWN | | SA333 | 3-6 | .674" | 1 | |
| Drain | 1 | | 4" | RFWN | | SA333 | 1-6 | .674" | SA516-7 | '0N |
| Drain | 2 | | 3" | RFWN | , | SA333 | i-6 | .600" | SA516-7 | ON. |
| Orain | 2 | | 3" | RFWN | | SA333 | i-6 | .600" | | |
| PSV | 2 | | 3" | RFWN | | SA333 | i-6 | .600" | | |
| See AB25A Supp. Sheet | | | | | | | | | | |
| Supports/ Support | | | | | | | | | <u></u> | |
| res/ Oui No/ Non / | .ugs/ Oreille Vo./ Nbre N/A | S | | s/Pieds / <i>Nbre</i> A | | | ther/ Autres (Di Saddles | escription) | | |
| Remarks/ Observa | tions (C | ubic | al capacity | / Volun | ne) | | | | | |
| Remarks/ Observa 'mpact tests requessel construct Vessel Volume: PSV to be suppli | | nead wing bic n | i to shell, g: 5100-03 neters | shell 1 R03 | o shell | , and | shell long | seam pro | duction | we |
| ertificate of Complia | | ficat o | le conformit | é | | | Cortific | oto of Chan | lnonosti or | -/ |
| e certify that the state did vessel has been co esign below and the re | ments mad | de in t in acc | his data repo ordance with | rt are co | rrect and rincial Re | that the gistered | I, the ur | | duly author | rizec le cha |
| ous certifions que les que l'appareil a été co essous et les exigence | onstruit en | accor | d avec l'enre | conform gistreme | ité sont c nt provin | orrectes cial ci- | have in | Alberta spected the a ef, the manu | bove vess | el an |
| rovincial Registered D inregistrement provinci | esign al <u>R705</u> | 5.21 | | | | | the Prov and the ai inspec | rincial registra requirements té l'appareil pré | ation CRN of standa cité et autar | rd CS |
| lanufacturer onstructeur Dynaco | rp Fabrica | itors l | nc. | | | | et les exi | en accord ave gences de la no or's Name | | |
| Signature | <u> </u> | | Date | € Ju | ne 25 | 104 | Nom de l | inspecteur _ | Dice. | 1186 1 |
| ertificate of Complian ertificat de conformit | nce - Field é <i>- Installa</i> | Work | d au chantier | | | , | Certific chantier | ate of Field I | nspection | l Cei |
| Ve certify that the field i | installation ial Regulat | of all ions. | parls of the v | essel co | nforms w | ith the | Je, souss | dersigned, a | | |
| lous certifions que l'ins appareil est conforme a | tallation au aux règlem | ı chan ents p | tier de toutes rovinciaux. | les com | posantes | de | | par pected the ite | | |
| staller's Name om de l'installateur | ., | | | | <u>.</u> . | | belief the Provinci | Illation of the construction at Regulation | n and asse s. | mbly |
| unature | | | | | | | ai Inspect | é les composai | ntes non col | uverte |

Date

on welds as per UG-84 to-50F on/ Certificat d'inspecton en usine horized Boiler and Pressure Vessel Inspector é de chaudières et appareil sous pression rs Safety Association ssel and state that to the best of my knowledge has constructed the vessel in accordance with N R7055.21 dard CSA B51. tant que je sache, crois que le constructeur a construit strement provincial NEC IOR B51. on/ Certificat d'inspection - Installation au horized Boiler and Pressure Vessel Inspector é de chaudières et appareil sous pression covered by the Shop Inspection Certificate and nd state that to the best of my knowledge and sembly of the items are in accordance with the couvertes par le certificat d'inspection en usine et installation de l'appareil et, autant que je sache, la construction et l'assemblage de l'appareil sont en accord avec les règlements provinciaux. Inspector's Name Nom de l'inspecteur Signature Date

ALBERTA MUNICIPAL AFFAIRS

Alberta Boilers Safety Association 200, 4208 - 97 Street

ATT 489850

MANUFACTURER'S DATA REPORT SUPPLEMENTARY SHEET

| Edmonton AB T6E 5Z9 | | | | | | | | | | |
|---|------------------|------------------|-----------------------|---|---------|---|---|----------|--------------------|---|
| Janufactured by Construit par | Name a | nd address of M | anufacturer/ Nom et a | dresse du constructeur 00-92St. Granc | le Dr | eiria AR: T | 9\/ 702 | ····· | | |
| Manufactured for Construit pour | Name a | nd address of Po | rchaser or Consigned | el Nom et adresse du ch Box 327; Grand | ient ou | de son représent | ant | | | |
| Ultimate owner Utilisateur | Name at | nd address/ Non | n et adresse | 30x 327; Grand | | ***** | | | ·w | *************************************** |
| Location of installation Lieu d'installation | | l Adresse | on dervices, i | 50x 327; Grand | e Pr | airie, AB; i | 8V 3A5 | | | |
| Pressure vessel/ Appa | reil | | | | | | | | | |
| Type/ Genre 54" 740psi Horizontal Test | | | | | 1 | ial No./ N° de se | érie | | Year built | /Année de fabrication |
| Provincial Registration No. – C.F P7055.21 | R.N./ N° d'en | registrement p | provincial - N.E.C. | | Nati | onal Board No. | / N° National Board | ' | Drawing 5100-05 | No./ N° de dessin R00 |
| Nozzles and Openings | Tubulur | es et ouve | ertures | | | · · · · · · · · · · · · · · · · · · · | | | ! <u>.</u> | |
| Purpose/ But | Number Nombre | Dimension | Туре | Material Matériau | | Nominal Thickness Épaisseur nominale | Reinforcement material Matériau de renfort | Gen | ched <i>re</i> | Location/ Endroit |
| High Press. Shutdown | 1 | 2" | RFWN | SA333-6 | | .436" | de remon | + | aches 16.1c | Head B |
| Sight Glass | 8 | 1" | RFWN | SA333-6 | | .358" | | <u> </u> | 16.1c | Head A&B, Shell B |
| Manway | 1 | 20" | RFWN | SA333-6 | | .594" | SA516-70N | υw | 16.1c | Shell A |
| Level control\High Lev. Shutdown | 3 | 3" | RFWN | SA333-6 | | .600" | | uw | 16.1c | Head B |
| | | | | | | | | | | |
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| Other/ Autres | | | I | | | <u> </u> | <u> </u> | <u> </u> | | |
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| | | | 1.00 | | | —————————————————————————————————————— | | | | |
| | **** | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | <u> </u> | • |
| ate June 25, 2004 | | Name _ | Dynacorp Fabric | cators Inc. lurer/ Constructeu | ir) | 8 | Signed | | Represen | tative) |
| Date <u>Opine ESS</u> | 4 | Name _ | GAN | 1 BIWSE Name/ Nom de l'il | 1 | S | nspector's Signature <u>C</u> | Â | Cery | Pulabi |



PIMS ULTRASONIC THICKNESS GAUGE (UTT) REPORT FORM

UTT REPORT FORM 101

| CLIEN | ΓNAME: | | | LYOI | NS PRODUCT | ION SERVICES | LTD. | | | PROJEC | CT NAME | : | | | SS-742 | |
|---------------|-----------------|-------|-------|-------------------------------|----------------|-----------------|---------------|------------|--------------|-------------|--------------|----------|---------|----------|---------------|-------|
| Client A | ddress: | | 9301 | . 78 Ave Clai | rmont AB T8 | 3X 0M2 | | | Clie | nt Job N | lo.: | | NA | | | |
| Client | Contact | | Nam | e: Dave | MacDonald | | | | Purc | hase O | rder Nu | mber: | NA | | | |
| Infor | mation: | | Phon | ne: 780-5 | 38-3400 | | | | AFE | Numbei | r: | | NA | | | |
| Work Da | ites: | | May | 16, 2022 | | | | | Othe | er: | | | NA | | | |
| Work Lo | cation: | _ | Gran | de Prairie Ya | ard | | | | Rep | ort Page | e Numbe | er: | Pag | e 1 | of 16 | |
| UT Proc | edure # | | UT-0 | 01 | | Rev: 1 | Client S | pecs: | N/A | | | | Acc | . Std.: | | |
| | | | | | | | EQUIPME | NT | | | | | | | | |
| UT Instr | ument: | | | Olympus | | | Calibra | tion Date | e: | Februa | ary 7, 20 |)22 | | | | |
| UT Instr | ument N | Лode | el: | Epoch 650 | | | | | | | | Mate | rial Th | nickness | : Variou | S |
| UT Instr | ument S | erial | : | 160160802 | | | Calibra | tion Bloc | ks: | Step V | Vedge | DWG. | #: | N/A | | |
| Cable Type | Cable Length | Т | est A | ngle | Probe S/D | Freq.(MHZ) | Serial No. | Dia. | Tran Valu | isfer ie | Test From | | dB | % FSH | Scan Sens. | Range |
| Coaxal | 36" | 0 | DEG | | S | 5MHZ | A924D | 0.25 0" | - | | - | | 60 | 80 | - | 20mm |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | Ir | nspection | Data | | | | | | | | |
| | | Rep | ort P | ackage for S | S-742 (0489 | 350) | Area | to he | Vess | sel | | | | | | |
| Scop | e: | | | | | | Inspe | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | See | attac | ched UT repo | orts for resul | ts. | | | | | | | | | | |
| Resu | ts: | | | ig Thickness e specified b | | 1.3 Piping is N | om-12.5% | 6. ASME | Sec VI | II Div. 1 | flags e | stablish | ned at | Nom-(0 | CA/2) unle | SS |
| Photo | | | | | | | R | eport | | | | | | | | |
| | | | | | | vork which wa | | | | | | | | | | |
| | | | | | | which falls out | | | | | | | | | | |

result of work performed in conformance with applicable specifications and standards to the best of our ability and intent. However, the company will not be responsible for deviations within normal limits of accuracy in accordance with the standard practices. Final Code acceptance shall require Client/Manufacture representative signature.

UT Technician: Jeremy Kerr

Certification: CGSB REG: 20506

Level: CGSB Level 1

| UT Technician: Jeremy Kerr | Certification: CGSB REG: 20506 | Level: CGSB Level 1 |
|-------------------------------|--------------------------------|---------------------|
| Reviewed By: Steve Gillingham | Certification: CGSB REG: 11441 | Level: CGSB Level 2 |
| Client Representative: | Signature: | Date: May 16, 2022 |





| Location Name: | Grande Prairie AB | | LSD: | Portable | |
|-------------------------------|---------------------------|-----|------------------------|------------|----|
| Jur #: | 0489850 | | Equipment/Tag No. | SS-742 | |
| Equipment Description: | Horizontal Test Vessel | | | | |
| Manufacturer: | Dynacorp Fabricators Inc. | | | | |
| Serial Number: | 1J41668 | | CRN: | P7055.21 | |
| Shell MAWP: | 740 | PSI | Shell Design Temp: | 200 | °F |
| Tube MAWP: | - | PSI | Tube Design Temp: | - | °F |
| Shell Material: | SA-516-70N | | Head Material: | SA-516-70N | |
| Shell Thickness: | 28.6 | mm | Head Thickness: | 27.4 | mm |
| Corrosion Allowance: | 1.4 | mm | Date Built: | 2004 | |
| Size: | 54 | in | Pipe / Rolled Plate: | Plate | |
| RT: | RT1 | | Client DWG #: | - | |

Photos



View of Nameplate



Overall view of Equipment





| Location Name: | Grande Prairie AB | | LSD: | Portable | |
|-------------------------------|---------------------------|--------|----------------------|------------|----|
| Jur #: | 0489850 | | Equipment/Tag No. | SS-742 | |
| Equipment Description: | Horizontal Test Vessel | | | | |
| Manufacturer: | Dynacorp Fabricators Inc. | | | | |
| Serial Number: | 1J41668 | | CRN: | P7055.21 | |
| Shell MAWP: | 740 | PSI | Shell Design Temp: | 200 | °F |
| Tube MAWP: | - | PSI | Tube Design Temp: | - | °F |
| Shell Material: | SA-516-70N | | Head Material: | SA-516-70N | |
| Shell Thickness: | 28.6 | mm | Head Thickness: | 27.4 | mm |
| Corrosion Allowance: | 1.4 | mm | Date Built: | 2004 | |
| Size: | 54 | in | Pipe / Rolled Plate: | Plate | |
| RT: | RT1 | | Client DWG #: | - | |
| | ISO D | rawing | of TML's | | |

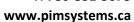






| Location Name: | Grande Prairie AB | | LSD: | Portable | |
|-------------------------------|---------------------------|-----|----------------------|------------|----|
| Jur #: | 0489850 | | Equipment/Tag No. | SS-742 | |
| Equipment Description: | Horizontal Test Vessel | | | | |
| Manufacturer: | Dynacorp Fabricators Inc. | | | | |
| Serial Number: | 1J41668 | | CRN: | P7055.21 | |
| Shell MAWP: | 740 | PSI | Shell Design Temp: | 200 | °F |
| Tube MAWP: | - | PSI | Tube Design Temp: | - | °F |
| Shell Material: | SA-516-70N | | Head Material: | SA-516-70N | |
| Shell Thickness: | 28.6 | mm | Head Thickness: | 27.4 | mm |
| Corrosion Allowance: | 1.4 | mm | Date Built: | 2004 | |
| Size: | 54 | in | Pipe / Rolled Plate: | Plate | |
| RT: | RT1 | | Client DWG #: | - | |

ISO Drawing of TML's OUTLET INLET HEAD INLET OUTLET HEAD





LSD: Grande Prairie AB **Portable Location Name:** 0489850 **Equipment/Tag No.** Jur #: SS-742 **Equipment Description:** Horizontal Test Vessel Manufacturer: Dynacorp Fabricators Inc. **Serial Number:** 1J41668 CRN: P7055.21 **Shell Design Temp:** Shell MAWP: 740 PSI 200 °F **Tube MAWP:** PSI **Tube Design Temp:** °F **Shell Material:** SA-516-70N **Head Material:** SA-516-70N **Shell Thickness:** 28.6 **Head Thickness:** 27.4 mm mm **Corrosion Allowance:** 1.4 **Date Built:** 2004 54 Size: Pipe/Rolled Plate: Plate рτ٠ DT1 Client DWG #

| RT: | RT1 | | Client DWG #: - | | | | | | | | |
|---------------|-------------|-------------|-----------------|-----|-------|------|--|------------|-------|--|--|
| TML# | B | Ch | 6: | Sch | Nom | Fl | | 2022-05-16 | | | |
| | Description | Shape | Size | | | Flag | | Min | Avg | | |
| VESSEL PIPING | | | | | | | | | | | |
| 5 | Pipe | Tee Cap | 4" | 80 | 8.56 | 7.49 | | 7.91 | 8.19 | | |
| 10 | Pipe | Tee Neck | 4" | 80 | 8.56 | 7.49 | | 8.66 | 9.09 | | |
| 15 | Pipe | Tee Cap | 6" | 80 | 10.97 | 9.60 | | 10.31 | 10.65 | | |
| 20 | Pipe | Tee Neck | 6" | 80 | 10.97 | 9.60 | | 7.47 | 8.18 | | |
| 25 | Pipe | Back of Tee | 4" | 80 | 8.56 | 7.49 | | 5.09 | 6.00 | | |
| 30 | Pipe | 90° Elbow | 3" | 80 | 7.62 | 6.67 | | 10.51 | 11.23 | | |
| 35 | Pipe | Back of Tee | 3" | 80 | 7.62 | 6.67 | | 6.47 | 6.76 | | |
| 40 | Pipe | Tee Cap | 3" | 80 | 7.62 | 6.67 | | 6.19 | 7.30 | | |
| 45 | Pipe | Tee Cap | 3" | 80 | 7.62 | 6.67 | | 6.93 | 7.46 | | |
| 50 | Pipe | Tee Cap | 3" | 80 | 7.62 | 6.67 | | 6.42 | 6.65 | | |
| 55 | Pipe | Tee Cap | 3" | 80 | 7.62 | 6.67 | | 6.50 | 6.89 | | |
| 60 | Pipe | Tee Cap | 3" | 80 | 7.62 | 6.67 | | 5.67 | 6.01 | | |
| 65 | Pipe | 90° Elbow | 2" | 40 | 3.91 | 3.43 | | 5.16 | 5.64 | | |
| 70 | Pipe | 90° Elbow | 2" | 40 | 3.91 | 3.43 | | 8.25 | 8.74 | | |
| 75 | Pipe | Back of Tee | 2" x 3" | 80 | 7.62 | 6.67 | | 10.23 | 10.62 | | |
| 80 | Pipe | Cross | 3" | 80 | 7.62 | 6.67 | | 6.64 | 6.80 | | |
| 85 | Pipe | 90° Elbow | 6" | 40 | 7.11 | 6.23 | | 5.95 | 6.08 | | |
| 90 | Pipe | 90° Elbow | 4" | 40 | 6.02 | 5.27 | | 7.14 | 7.56 | | |
| 95 | Pipe | 90° Elbow | 6" | 40 | 7.11 | 6.23 | | 4.36 | 4.81 | | |
| 100 | Pipe | 90° Elbow | 3" | 40 | 5.49 | 4.81 | | 5.12 | 5.88 | | |
| 105 | Pipe | Tee Neck | 3" | 40 | 5.49 | 4.81 | | 5.19 | 5.89 | | |
| 110 | Pipe | Back of Tee | 3" | 40 | 5.49 | 4.81 | | 5.61 | 5.80 | | |
| 115 | Pipe | 90° Elbow | 2" | 40 | 3.91 | 3.43 | | 2.92 | 3.41 | | |
| 120 | Pipe | 90° Elbow | 2" | 40 | 3.91 | 3.43 | | 5.46 | 5.74 | | |
| 125 | Pipe | 90° Elbow | 2" | 40 | 3.91 | 3.43 | | 5.11 | 5.47 | | |
| 130 | Pipe | 90° Elbow | 2" | 40 | 3.91 | 3.43 | | 8.80 | 9.04 | | |
| 135 | Pipe | Back of Tee | 2" | 40 | 3.91 | 3.43 | | 5.60 | 7.42 | | |
| 140 | Pipe | Cross | 2" | 40 | 3.91 | 3.43 | | 5.60 | 6.16 | | |
| 145 | Pipe | 90° Elbow | 3" | 40 | 5.49 | 4.81 | | 3.07 | 3.50 | | |





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| 150 | Pipe | 90° Elbow | 3" | 40 | 5.49 | 4.81 | | 5.60 | 6.03 | |
|--------------|--------|-------------|-----|-----|-------|-------|--|-------|-------|--|
| NOZZLES | | | | | | | | | | |
| N1 | Nozzle | Circ | 3" | XXH | 15.24 | 13.34 | | 16.50 | 16.96 | |
| N2 | Nozzle | Circ | 3" | XXH | 15.24 | 13.34 | | 13.50 | 13.82 | |
| N3 | Nozzle | Circ | 3" | XXH | 15.24 | 13.34 | | 12.80 | 13.31 | |
| N4 | Nozzle | Circ | 4" | XXH | 17.12 | 14.98 | | 15.66 | 16.15 | |
| N5 | Nozzle | Circ | 1" | XXH | 9.09 | 8.49 | | 8.22 | 8.73 | |
| HEAD & SHELL | | | | | | | | | | |
| 5 | Head | Ellipsodial | 54" | NS | 27.40 | 23.97 | | 27.91 | 28.21 | |
| 10 | Head | Ellipsodial | 54" | NS | 27.40 | 23.97 | | 28.50 | 29.02 | |
| 15 | Head | Ellipsodial | 54" | NS | 27.40 | 23.97 | | 28.75 | 28.88 | |
| 20 | Head | Ellipsodial | 54" | NS | 27.40 | 23.97 | | 28.90 | 29.35 | |
| 25 | Head | Ellipsodial | 54" | NS | 27.40 | 23.97 | | 28.33 | 28.63 | |
| 30 | Head | Ellipsodial | 54" | NS | 27.40 | 23.97 | | 29.08 | 29.44 | |
| 35 | Head | Ellipsodial | 54" | NS | 27.40 | 23.97 | | 28.77 | 29.17 | |
| 40 | Head | Ellipsodial | 54" | NS | 27.40 | 23.97 | | 28.41 | 28.79 | |
| 45 | Shell | Cylindrical | 54" | NS | 28.60 | 25.02 | | 28.24 | 29.03 | |
| 50 | Shell | Cylindrical | 54" | NS | 28.60 | 25.02 | | 28.10 | 28.57 | |
| 55 | Shell | Cylindrical | 54" | NS | 28.60 | 25.02 | | 28.50 | 28.79 | |
| 60 | Shell | Cylindrical | 54" | NS | 28.60 | 25.02 | | 28.40 | 28.67 | |
| 65 | Shell | Cylindrical | 54" | NS | 28.60 | 25.02 | | 28.39 | 28.74 | |