IADC

IADC
ISP PROGRAM

2013

Summary of Occupational Incidents
(European Land Totals)

Issued 20 May 2014
# Table of Contents

(Table of Contents is Hyperlinked, Just click on Topic & go)

- IADC 2013 European Land Totals (Table 1) ................................................................. 1
- European Land Total Incidence Rates vs Man-hours (Figure 1) ................................. 1
- IADC 2013 European Land Charts .................................................................................. 2
  - European Land Total Lost Time Incidents by Month (Chart 1) ................................. 2
  - European Land Total Recordable Incidents by Month (Chart 2) ............................... 3
  - European Land Total Lost Time Incidents by Occupation (Chart 3) ......................... 4
  - European Land Total Recordable Incidents by Occupation (Chart 4) ...................... 5
  - European Land Total Lost Time Incidents by Body Part (Chart 5) .......................... 6
  - European Land Total Recordable Incidents by Body Part (Chart 6) ....................... 7
  - European Land Total Lost Time Incidents by Incident Type (Chart 7) ..................... 8
  - European Land Total Recordable Incidents by Incident Type (Chart 8) ................. 9
  - European Land Total Lost Time Incidents by Equipment (Chart 9) ....................... 10
  - European Land Total Recordable Incidents by Equipment (Chart 10) ................. 11
  - European Land Total Lost Time Incidents by Operation (Chart 11) ....................... 12
  - European Land Total Recordable Incidents by Operation (Chart 12) .................... 13
  - European Land Total Lost Time Incidents by Location (Chart 13) ......................... 14
  - European Land Total Recordable Incidents by Location (Chart 14) ....................... 15
  - European Land Total Lost Time Incidents by Time in Service (Chart 15) ............. 16
  - European Land Total Recordable Incidents by Time in Service (Chart 16) .......... 17
  - European Land Total Lost Time Incidents by Time of Day (Chart 17) ................. 18
  - European Land Total Recordable Incidents by Time of Day (Chart 18) .............. 19
IADC 2013 European Land Totals (Table 1)

<table>
<thead>
<tr>
<th>Category</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Man-hours</td>
<td>58,137,011</td>
</tr>
<tr>
<td>Total Medical Treatment Incidents</td>
<td>26</td>
</tr>
<tr>
<td>Total Restricted Work Incidents</td>
<td>15</td>
</tr>
<tr>
<td>Total Lost Time Incidents</td>
<td>96</td>
</tr>
<tr>
<td>Total Fatalities</td>
<td>2</td>
</tr>
<tr>
<td>Total Recordables</td>
<td>139</td>
</tr>
<tr>
<td>MTO Incidence Rate</td>
<td>0.09</td>
</tr>
<tr>
<td>RWC Incidence Rate</td>
<td>0.05</td>
</tr>
<tr>
<td>LTI Incidence Rate</td>
<td>0.34</td>
</tr>
<tr>
<td>LTI Frequency Rate</td>
<td>1.69</td>
</tr>
<tr>
<td>DART Incidence Rate</td>
<td>0.39</td>
</tr>
<tr>
<td>DART Frequency Rate</td>
<td>1.94</td>
</tr>
<tr>
<td>Recordable Incidence Rate</td>
<td>0.48</td>
</tr>
<tr>
<td>Recordable Frequency Rate</td>
<td>2.39</td>
</tr>
</tbody>
</table>

Companies Reporting: Land – 14

Medical Treatment Incidence Rate = MTOs X 200,000
Restricted Work Incidence Rate = RWCs X 200,000
Lost Time Incidence Rate = LTIs + FTLs X 200,000
DART Incidence Rate = LTIs + RWC X 200,000
Recordable Incidence Rate = RCRD X 200,000
Lost Time Frequency Rate = LTIs + FTLs X 1,000,000
DART Frequency Rate = LTIs + RWC X 1,000,000
Recordable Frequency Rate = RCRD X 1,000,000

European Land Total Incidence Rates vs Man-hours (Figure 1)
IADC 2013 European Land Charts
European Land Total Lost Time Incidents by Month (Chart 1)
Based on 96 Incidents

- December: 7.29%
- November: 7.29%
- October: 13.54%
- September: 7.29%
- August: 11.46%
- July: 9.38%
- June: 5.21%
- May: 6.25%
- April: 8.33%
- March: 9.38%
- February: 6.25%
- January: 8.33%
- October: 13.54%
European Land Total Recordable Incidents by Month (Chart 2)
Based on 139 Incidents

- December: 6.47%
- November: 6.47%
- October: 12.95%
- September: 7.91%
- August: 10.07%
- July: 12.23%
- June: 8.63%
- May: 6.47%
- April: 6.47%
- March: 7.91%
- February: 5.76%

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European Land Total Lost Time Incidents by Occupation (Chart 3)
Based on 96 Incidents

- Electrician (Electronic Technician): 13.54%
- Mechanic (Repair Technician): 15.63%
- Rig Helper: 1.04%
- Welder: 2.08%
- Superintendent/other Supervisors: 2.08%
- Mechanic (Repair Technician): 15.63%
- Driller (Asst. Dr.): 33.33%
- Toolpusher (Asst. TP, Tourpusher): 1.04%
- Floorman: 13.54%
- Derrickman: 4.17%
- Roustabout (Lease Hand): 3.13%
- Other: 13.54%
European Land Total Recordable Incidents by Occupation (Chart 4)
Based on 139 Incidents

- Driller (Asst. Dr.) - 28.78%
- Floorman - 20.86%
- Electrician (Electronic Technician) - 4.32%
- Mechanic (Repair Technician) - 12.23%
- Superintendent/other Supervisors - 1.44%
- Rig Helper - 0.72%
- Toolpusher (Asst. TP, Tourpusher) - 0.72%
- Welder - 2.16%
- Other - 13.67%
- Roustabout (Lease Hand) - 8.63%
- Derrickman - 2.88%
- Motorman - 3.60%
- Floorman - 20.86%
European Land Total Lost Time Incidents by Body Part (Chart 5)
Based on 96 Incidents

- Finger(s) 23.96%
- Hand(s) / Wrist(s) 7.29%
- Arm(s) 6.25%
- Back 2.08%
- Trunk/Torso (chest, abdomen, groin) 8.33%
- Leg(s) 9.38%
- Feet/Ankles 15.63%
- Toes 1.04%
- Shoulder(s) 2.08%
- Elbow(s) 1.04%
- Knee(s) 4.17%
- Other 3.13%
- Eyes (eyelid) 3.13%
- Head 12.50%
- Trunk/Torso (chest, abdomen, groin) 8.33%
European Land Total Recordable Incidents by Body Part (Chart 6)
Based on 139 Incidents

- Finger(s) 27.34%
- Head 13.67%
- Trunk/Torso (chest, abdomen, groin) 7.19%
- Back 2.16%
- Arm(s) 4.32%
- Hand(s) / Wrist(s) 9.35%
- Feet/Ankles 13.67%
- Leg(s) 8.63%
- Toes 1.44%
- Shoulder(s) 2.16%
- Eyes (eyelid) 2.16%
- Other 4.32%
- Knee(s) 2.88%
- Elbow(s) 0.72%
- Other 4.32%
European Land Total Lost Time Incidents by Incident Type (Chart 7)
Based on 96 Incidents

- Caught Between/In: 22.92%
- Struck By: 25.00%
- Struck Against: 9.38%
- Slip/Fall: Different Level: 12.50%
- Slip/Fall: Same Level: 11.46%
- Strain/Overexertion: 2.08%
- Sprain: 5.21%
- Other: 3.13%
- Debris: 3.13%
- Flame/heat/steam (contact/exposed): 1.04%
- Contact With Chemicals/Fluids: 1.04%
- Cut: 1.04%
- Jump: 2.08%
- Other: 3.13%
- Struck By: 25.00%
- Struck Against: 9.38%
- Slip/Fall: Different Level: 12.50%
- Slip/Fall: Same Level: 11.46%
- Strain/Overexertion: 2.08%
- Sprain: 5.21%
- Other: 3.13%
- Debris: 3.13%
- Flame/heat/steam (contact/exposed): 1.04%
- Contact With Chemicals/Fluids: 1.04%
- Cut: 1.04%
- Jump: 2.08%
European Land Total Recordable Incidents by Incident Type (Chart 8)
Based on 139 Incidents

- Caught Between/In: 25.90%
- Struck By: 27.34%
- Struck Against: 6.47%
- Slip/Fall: Different Level: 10.79%
- Slip/Fall: Same Level: 8.63%
- Strain/Overexertion: 2.16%
- Contact With Chemicals/Fluids: 0.72%
- Flame/heat/steam (contact/exposed): 1.44%
- Cut: 2.88%
- Debris: 2.88%
- Sprain: 5.04%
- Other: 4.32%
- Jump: 1.44%
European Land Total Lost Time Incidents by Equipment (Chart 9)
Based on 96 Incidents

- Tongs: 4.17%
- Elevators: 3.13%
- Iron Roughneck, Pipe Spinner, etc.: 3.13%
- Pipes/Collars/Tubulars/Csg.: 14.58%
- Slings (rope, cable, chain, web): 2.08%
- Hand Tools: Manual: 8.33%
- Hand Tools: Power: 1.04%
- Engines/Pumps/Machinery: 2.08%
- Boat: 1.04%
- Car, truck, bus: 3.13%
- Stairs: 2.08%
- Material: 1.04%
- Car, truck, bus: 3.13%
- Well Control (BOP) Stack (well head, tree): 4.17%
- Welding, Cutting, Grinding Equipment: 3.13%
- Decks (grating, walkway): 5.21%
- Ladders: 5.21%
- Forklift: 1.04%
- Crane: 1.04%
- Other: 33.33%
- Chemicals (sack, drum, pail, bulk hopper): 1.04%

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European Land Total Recordable Incidents by Equipment (Chart 10)
Based on 139 Incidents

- Tongs: 4.32%
- Elevators: 2.88%
- Slips (drill collar clamp): 0.72%
- Iron Roughneck, Pipe Spinner, etc.: 2.16%
- Pipes/Collars/Tubulars/Csg.: 15.83%
- Slings (rope, cable, chain, web): 2.88%
- Hand Tools: Manual: 9.35%
- Hand Tools: Power: 1.44%
- Engines/Pumps/Machinery: 2.88%
- Car, truck, bus: 2.16%
- Boat: 1.44%
- Decks (grating, walkway): 3.60%
- Ladders: 3.60%
- Forklift: 0.72%
- Crane: 0.72%
- Pressure Hoses/Lines: 1.44%
- Material: 1.44%
- Well Control (BOP) Stack (well head, tree): 3.60%
- Stairs: 2.16%
- Other: 33.09%
- Top Drive (blocks, swivel, kelly): 0.72%
- Chemicals (sack, drum, pail, bulk hopper): 0.72%
- Welding, Cutting, Grinding Equipment: 2.16%
- Boats: 1.44%

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European Land Total Lost Time Incidents by Operation (Chart 11)
Based on 96 Incidents

- Travel/Transportation: 2.08%
- Other: 18.75%
- Tripping in/out (makeup/braceout BHA, test tools, etc.): 9.38%
- Making Connection: 4.17%
- Routine Drilling Operations: 2.08%
- Running Casing/Tubing (rig up/down csg. tools): 3.13%
- Laying Down/Picking up Pipe/Tubulars: 10.42%
- Material Handling: Manual: 4.17%
- Material Handling: Crane/Cherry Picker: 2.08%
- Material Handling: Winch Truck: 1.04%
- Rigging Up/Down (rig move preparation, rig move): 13.54%
- Well Control (BOP) Stack (well head/tree) Install/Maintenance: 4.17%
- Rig/Equipment Repairs or Maintenance: 11.46%
- Walking: 12.50%
- Painting (painting related tasks): 1.04%

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European Land Total Recordable Incidents by Operation (Chart 12)
Based on 139 Incidents

- Walking: 8.63%
- Rigging Up/Down (rig move preparation, rig move): 13.67%
- Well Control (BOP) Stack (well head/tree) Install/Maintenance: 5.04%
- Material Handling: Crane/Cherry Picker: 2.88%
- Material Handling: Winch Truck: 0.72%
- Rig/Equipment Repairs or Maintenance: 12.23%
- Material Handling: Manual: 5.76%
- Laying Down/Picking up Pipe/Tubulars: 10.07%
- Material Handling: Crane/Cherry Picker: 2.88%
- Rigging Up/Down (rig move preparation, rig move): 13.67%
- Mudd Mixing/Pumping: 0.72%
- Special Operations (wireline, perforating, etc.): 0.72%
European Land Total Lost Time Incidents by Location (Chart 13)
Based on 96 Incidents

- Rig Pad/Rig Decks 18.75%
- Well Control (BOP) Stack (well head/tree) Area 5.21%
- Mud Mixing Tank/Area 3.13%
- Mud Pits/Tanks 3.13%
- Engine Room/Generator Room 1.04%
- Engine Room/Generator Room 1.04%
- Cellar / Substructure / Moonpool 1.04%
- Work Rooms (change house, storage house/room) 3.13%
- Rig Floor (rotary, pipe set back area) 18.75%
- Fuel/Water Storage Tanks 2.08%
- Other 8.33%
- Derrick/Mast (crown, monkey/stabbing board, a-frame) 4.17%
- Catwalk/V-door 4.17%
- Pipe Rack/Pipe Deck 8.33%
- Stairs/Ladders 2.08%
- Truck, Car, Bus 3.13%
- Machinery Spaces 3.13%
- Cellar / Substructure / Moonpool 1.04%
European Land Total Recordable Incidents by Location (Chart 14)
Based on 139 Incidents

- Rig Floor (rotary, pipe set back area): 18.71%
- Rig Floor (rotary, pipe set back area): 17.99%
- Engine Room/Generator Room: 1.44%
- Mud Pits/Tanks: 1.44%
- Mud Pump Room: 6.47%
- Machinery Spaces: 2.16%
- Catwalk/V-door: 5.76%
- Truck, Car, Bus: 2.88%
- Cellar/Substructure/Moonpool: 2.88%
- Living/Camp Areas/Accommodations: 4.32%
- Work Rooms (change house, storage house/room): 2.88%
- Stairs/Ladders: 1.44%
- Fuel/Water Storage Tanks: 1.44%
- Other: 8.63%
- Well Control (BOP) Stack (well head/tree) Area: 5.76%
- Mud Mixing Tank/Area: 2.88%
- Mud Mixing Tank/Area: 2.88%
- Rig Pad/Decks: 17.99%
- Mud Pits/Tanks: 3.60%
European Land Total Lost Time Incidents by Time in Service (Chart 15)
Based on 94 Incidents

- 10+ yrs.: 15.96%
- >5 yrs. < 10 yrs.: 19.15%
- >1 yr. < 5 yrs.: 40.43%
- >6 mos. < 1 yr.: 9.57%
- >3 mos. < 6 mos.: 6.38%
- 0 mo. < 3 mos.: 8.51%
European Land Total Recordable Incidents by Time in Service (Chart 16)
Based on 136 incidents
European Land Total Lost Time Incidents by Time of Day (Chart 17)
Based on 96 Incidents

- 14:00: 5.21%
- 13:00: 8.33%
- 22:00: 5.21%
- 21:00: 5.21%
- 20:00: 4.17%
- 19:00: 3.13%
- 18:00: 4.17%
- 17:00: 4.17%
- 16:00: 2.08%
- 15:00: 6.25%
- 14:00: 5.21%
- 13:00: 8.33%
- 12:00: 7.29%
- 11:00: 7.29%
- 10:00: 7.29%
- 09:00: 4.17%
- 08:00: 6.25%
- 07:00: 2.08%
- 06:00: 4.17%
- 05:00: 4.17%
- 04:00: 3.13%
- 03:00: 1.04%
- 02:00: 3.13%
- 01:00: 2.08%
- 00:00: 1.04%
- 23:00: 1.04%
- 22:00: 1.04%
- 21:00: 1.04%
- 20:00: 1.04%
- 19:00: 1.04%
- 18:00: 1.04%
- 17:00: 1.04%
- 16:00: 1.04%
- 15:00: 1.04%
- 14:00: 1.04%
European Land Total Recordable Incidents by Time of Day (Chart 18)
Based on 139 Incidents

- 01:00: 4.32%
- 02:00: 2.16%
- 03:00: 3.60%
- 04:00: 4.32%
- 05:00: 3.60%
- 06:00: 2.88%
- 07:00: 2.88%
- 08:00: 7.19%
- 09:00: 5.76%
- 10:00: 7.19%
- 11:00: 6.47%
- 12:00: 6.47%
- 13:00: 7.19%
- 14:00: 4.32%
- 15:00: 5.04%
- 16:00: 2.88%
- 17:00: 5.04%
- 18:00: 3.60%
- 19:00: 2.16%
- 20:00: 3.60%
- 21:00: 0.72%
- 22:00: 5.04%
- 23:00: 3.60%
- 24:00: 2.16%
- 00:00: 1.44%