Summary of Occupational Incidents
(European Land Totals)

Issued 15 June 2018
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IADC 2017 European Land Totals (Table 1)

<table>
<thead>
<tr>
<th>Total</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Man-hours</td>
<td>44,274,793</td>
</tr>
<tr>
<td>Total Medical Treatment Incidents</td>
<td>10</td>
</tr>
<tr>
<td>Total Restricted Work Incidents</td>
<td>8</td>
</tr>
<tr>
<td>Total Lost Time Incidents</td>
<td>43</td>
</tr>
<tr>
<td>Total Fatalities</td>
<td>3</td>
</tr>
<tr>
<td>Total Recordables</td>
<td>64</td>
</tr>
<tr>
<td>MTO Incidence Rate</td>
<td>0.05</td>
</tr>
<tr>
<td>RWC Incidence Rate</td>
<td>0.04</td>
</tr>
<tr>
<td>LTI Incidence Rate</td>
<td>0.21</td>
</tr>
<tr>
<td>LTI Frequency Rate</td>
<td>1.04</td>
</tr>
<tr>
<td>DART Incidence Rate</td>
<td>0.24</td>
</tr>
<tr>
<td>DART Frequency Rate</td>
<td>1.22</td>
</tr>
<tr>
<td>Recordable Incidence Rate</td>
<td>0.29</td>
</tr>
<tr>
<td>Recordable Frequency Rate</td>
<td>1.45</td>
</tr>
</tbody>
</table>

Companies Reporting: Land – 12

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
Lost Time Frequency Rate = LTIs + FTLs X 1,000,000
DART Incidence Rate = LTIs + RWC X 200,000
DART Frequency Rate = LTIs + RWC X 1,000,000
Recordable Incidence Rate = RCRD X 200,000
Recordable Frequency Rate = RCRD X 1,000,000

European Land Total Incidence Rates vs Man-hours (Figure 1)
European Land Total Recordable Incidents by Month (Chart 2)
Based on 64 Incidents

- December: 12.50%
- November: 3.13%
- October: 9.38%
- September: 7.81%
- August: 4.69%
- July: 9.38%
- June: 9.38%
- May: 7.81%
- April: 7.81%
- March: 14.06%
- February: 4.69%
- January: 9.38%
European Land Total Lost Time Incidents by Occupation (Chart 3)
Based on 43 Incidents

- Electrician (Electronic Technician): 6.98%
- Mechanic (Repair Technician): 25.58%
- Motorman: 2.33%
- Toolpusher (Asst.TP, Tourpusher): 2.33%
- Welder: 2.33%
- Floorman: 13.95%
- Derrickman: 9.30%
- Floorman: 13.95%
- Driller (Asst. Dr.): 37.21%
European Land Total Recordable Incidents by Occupation (Chart 4)
Based on 64 Incidents

- Driller (Asst. Dr.) 29.69%
- Floorman 18.75%
- Floorman 18.75%
- Derrickman 14.06%
- Derrickman 14.06%
- Roustabout (Lease Hand) 3.13%
- Toolpusher (Asst. TP, Tourpusher) 1.56%
- Welder 1.56%
- Mechanic (Repair Technician) 20.31%
- Motorman 3.13%
- Electrician (Electronic Technician) 7.81%
- Roustabo ut (Lease H and) 3.13%
European Land Total Lost Time Incidents by Body Part (Chart 5)
Based on 43 Incidents

Knee(s) 6.98%
Shoulder(s) 6.98%
Toes 2.33%
Feet/Ankles 13.95%
Leg(s) 9.30%
Finger(s) 9.30%
Arm(s) 4.65%
Eyes (eyelid) 4.65%
Head 11.63%
Back 6.98%
Trunk/Torso (chest, abdomen, groin) 23.26%
European Land Total Recordable Incidents by Body Part (Chart 6)
Based on 64 Incidents

Skin 1.56%
Knee(s) 4.69%
Shoulder(s) 4.69%
Toes 1.56%
Feet/Ankles 12.50%
Leg(s) 6.25%
Finger(s) 14.06%
Hand(s) / Wrist(s) 3.13%
Arm(s) 4.69%
Trunk/Torso (chest, abdomen, groin) 17.19%
Back 6.25%
Head 20.31%
European Land Total Lost Time Incidents by Incident Type (Chart 7)
Based on 43 Incidents

- Sprain: 4.65%
- Vehicle: 9.30%
- Debris: 6.98%
- Flame/heat/steam (contact/exposed): 4.65%
- Slip/Fall: Different Level: 18.60%
- Slip/Fall: Same Level: 9.30%
- Caught Between/In: 13.95%
- Struck By: 32.56%
European Land Total Recordable Incidents by Incident Type (Chart 8)
Based on 64 Incidents

- Struck By: 31.25%
- Slip/Fall: Different Level: 12.50%
- Slip/Fall: Same Level: 9.38%
- Caught Between/In: 14.06%
- Slips/Falls: Same Level: 9.38%
- Struck Against: 6.25%
- Debris: 4.69%
- Flame/Heat/Steam (contact/exposed): 4.69%
- Sprain: 7.81%
- Cut: 3.13%
- Vehicle: 6.25%

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European Land Total Lost Time Incidents by Equipment (Chart 9)
Based on 43 Incidents

- Rig Floor Winch/Deck Winch (air/hydraulic) 6.98%
- Decks (grating, walkway) 9.30%
- Ladders 11.63%
- Forklift 6.98%
- Pressure Hoses/Lines 6.98%
- Stairs 4.65%
- Kelly Bushings (master bushings) 2.33%
- Cathead/Drawworks 2.33%
- Slings (rope, cable, chain, web) 2.33%
- Hand Tools: Manual 9.30%
- Engines/Pumps/Machinery 6.98%
- Car,truck,bus 9.30%
- Top Drive (blocks, swivel, kelly) 6.98%
- Pipes/Collars/Tubulars/Csg. 13.95%
- Pipes/Collars/Tubulars/Csg.
European Land Total Recordable Incidents by Equipment (Chart 10)

Based on 64 Incidents

- Anchor Chains/Cables/Winches: 1.56%
- Rig Floor Winch/Deck Winch (air/hydraulic): 4.69%
- Iron Roughneck, Pipe Spinner, etc.: 1.56%
- Pipes/Collars/Tubulars/Cs: 9.38%
- Cathead/Drawworks: 1.56%
- Slings (rope, cable, chain, web): 4.69%
- Hand Tools: Manual: 14.06%
- Engines/Pumps/Machinery: 6.25%
- Car, truck, bus: 7.81%
- Kelly Bushings (master bushings): 1.56%
- Wells Control (BOP) Stack (well head, tree): 1.56%
- Stairs: 4.69%
- Pressure Hoses/Lines: 6.25%
- Material: 1.56%
- Decksg (grating, walkway): 9.38%
- Ladders: 7.81%
- Top Drive (blocks, swivel, kelly): 7.81%
- Chemicals (sack, drum, pail, bulk hopper): 1.56%
- Forklift: 6.25%
- Well Control Stack: 1.56%
- Decks (grating, walkway): 9.38%
- Ladders: 7.81%
- Top Drive (blocks, swivel, kelly): 7.81%
- Chemicals (sack, drum, pail, bulk hopper): 1.56%
- Decks (grating, walkway): 9.38%
- Well Control Stack: 1.56%
- Pressure Hoses/Lines: 6.25%
- Material: 1.56%
- Forklift: 6.25%
- Car, truck, bus: 7.81%
- Kelly Bushings (master bushings): 1.56%

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European Land Total Lost Time Incidents by Operation (Chart 11)
Based on 43 Incidents

- Rig Move (Towing/Anchor Handling) 4.65%
- Tripping in/out (makeup/brakeout BHA, test tools, etc.) 6.98%
- Making Connection 2.33%
- Laying Down/Picking up Pipe/Tubulars 4.65%
- Walking 9.30%
- Travel/Transportation 6.98%
- Walking 9.30%
- Making Connection 2.33%
- Laying Down/Picking up Pipe/Tubulars 4.65%
- Material Handling: Manual 6.98%
- Material Handling: Crane/Cherry Picker 2.33%
- Material Handling: Forklift 6.98%
- Material Handling: Rig Floor Winch 4.65%
- Rigging Up/Down (rig move preparation, rig move) 13.95%
- Rig/Equipment Repairs or Maintenance 25.58%
- Well Control (BOP) Stack (well head/tree) Install/Maintenance 2.33%
- Rigging Up/Down (rig move preparation, rig move) 13.95%
- Material Handling: Crane/Cherry Picker 2.33%
- Material Handling: Forklift 6.98%
**European Land Total Recordable Incidents by Operation** (Chart 12)

Based on 64 Incidents

- Rig Move (Towing/Anchor Handling): 4.69%
- Travel/Transportation: 6.25%
- Mud Mixing/Pumping: 1.56%
- Walking: 9.38%
- Special Operations (wireline, perforating, etc.): 1.56%
- Making Connection: 1.56%
- Well Control (BOP) Stack (well head/tree) Install/Maintenance: 3.13%
- Tripping in/out (makeup/brakeout BHA, test tools, etc.): 9.38%
- Material Handling: Manual: 9.38%
- Rigging Up/Down (rig move preparation, rig move): 12.50%
- Laying Down/Picking up Pipe/Tubulars: 3.13%
- Material Handling: Crane/Cherry Picker: 3.13%
- Material Handling: Forklift: 6.25%
- Material Handling: Rig Floor Winch: 3.13%
- Rig/Equipment Repairs or Maintenance: 23.44%
European Land Total Lost Time Incidents by Location (Chart 13)
Based on 43 Incidents

- Rig Floor (rotary, pipe set back area) 18.60%
- Rig Pad/Rig Decks 11.63%
- Engine Room/Generator Room 4.65%
- Mud Pits/Tanks 2.33%
- Well Control (BOP) Stack (well head/tree) Area 4.65%
- Derrick/Mast (crown, monkey/stabbing board, a-frame) 6.98%
- Living / Camp Areas / Accommodations 4.65%
- Work Rooms (change house, storage house/room) 2.33%
- Cellar / Substructure / Moonpool 6.98%
- Engine Room/Generator Room 4.65%
- Mud Pump Room 6.98%
- Machinery Spaces 4.65%
- Catwalk/V-door 4.65%
- Engine Room/Generator Room 4.65%
- Pipe Rack/Pipe Deck 9.30%
- Stairs/Ladders 4.65%
- Truck, Car, Bus 6.98%
- Rig Pad/Rig Decks 11.63%
- Rig Floor (rotary, pipe set back area) 18.60%
- Rig Pad/Rig Decks 11.63%
- Engine Room/Generator Room 4.65%
- Mud Pits/Tanks 2.33%
- Well Control (BOP) Stack (well head/tree) Area 4.65%
- Derrick/Mast (crown, monkey/stabbing board, a-frame) 6.98%
- Living / Camp Areas / Accommodations 4.65%
- Work Rooms (change house, storage house/room) 2.33%
- Cellar / Substructure / Moonpool 6.98%
- Engine Room/Generator Room 4.65%
- Mud Pump Room 6.98%
- Machinery Spaces 4.65%
- Catwalk/V-door 4.65%
- Engine Room/Generator Room 4.65%
- Pipe Rack/Pipe Deck 9.30%
- Stairs/Ladders 4.65%
- Truck, Car, Bus 6.98%
European Land Total Recordable Incidents by Location (Chart 14)
Based on 64 Incidents

Pipe Rack/ Pipe Deck 6.25%
Catwalk/ V-door 3.13%
Derrick/ Mast (crown, monkey/ stabbing board, a-frame) 6.25%
Well Control (BOP) Stack (well head/tree) Area 4.69%
Mud Mixing Tank/Area 1.56%
Shale Shaker 1.56%
Mud Pits/ Tanks 3.13%
Engine Room/ Generator Room 3.13%
Stairs/ Ladders 4.69%
Rig Pad/ Rig Decks 14.06%
Living/ Camp Areas/ Accommodations 4.69%
Cellar/ Substructure/ Moontool 6.25%
Truck, Car, Bus 6.25%
Machinery Spaces 3.13%
Mud Pump Room 7.81%
Rig Floor (rotary, pipe set back area) 20.31%
European Land Total Lost Time Incidents by Time in Service (Chart 15)
Based on 43 Incidents

- 10+ yrs.: 25.58%
- >5 yrs. < 10 yrs.: 13.95%
- >1 yr. < 5 yrs.: 46.51%
- >6 mos. < 1 yr.: 6.98%
- >3 mos. < 6 mos.: 4.65%
- 0 mo. < 3 mos.: 2.33%
- 0 mo. < 3 mos.: 2.33%
European Land Total Recordable Incidents by Time in Service (Chart 16)
Based on 64 Incidents

- >1 yr. < 5 yrs.: 42.19%
- >5 yrs. < 10 yrs.: 17.19%
- 10+ yrs.: 23.44%
- >3 mos. < 6 mos.: 3.13%
- >6 mos. < 1 yr.: 9.38%
- >3 mos. < 6 mos.: 3.13%
- 0 mo. < 3 mos.: 4.69%

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European Land Total Lost Time Incidents by Time of Day (Chart 17)
Based on 43 Incidents

- 15:00: 11.63%
- 14:00: 4.65%
- 13:00: 4.65%
- 12:00: 9.30%
- 11:00: 9.30%
- 10:00: 6.98%
- 9:00: 6.98%
- 8:00: 2.33%
- 7:00: 2.33%
- 6:00: 2.33%
- 5:00: 2.33%
- 4:00: 2.33%
- 3:00: 6.98%
- 2:00: 11.63%
- 1:00: 11.63%
- 0:00: 4.65%
- 23:00: 2.33%
- 22:00: 4.65%
- 21:00: 2.33%
- 20:00: 2.33%
- 19:00: 4.65%
- 18:00: 2.33%
- 17:00: 2.33%
- 16:00: 11.63%
European Land Total Recordable Incidents by Time of Day (Chart 18)
Based on 64 Incidents

- 24:00:00 - 4.69%
- 23:00 - 4.69%
- 22:00 - 4.69%
- 21:00 - 3.13%
- 20:00 - 1.56%
- 19:00 - 4.69%
- 18:00 - 1.56%
- 17:00 - 1.56%
- 16:00 - 9.38%
- 15:00 - 10.94%
- 14:00 - 7.81%
- 13:00 - 3.13%
- 12:00 - 9.38%
- 11:00 - 6.25%
- 10:00 - 9.38%
- 09:00 - 4.69%
- 08:00 - 1.56%
- 07:00 - 3.13%
- 06:00 - 3.13%
- 05:00 - 1.56%
- 04:00 - 9.38%
- 03:00 - 4.69%
- 02:00 - 4.69%
- 01:00 - 1.56%
- 00:00 - 4.69%

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European Land Total Lost Time Incidents by Age (Chart 19)
Based on 43 Incidents

- 18 - 25: 9.30%
- 26 - 35: 23.26%
- 36 - 45: 32.56%
- 46 - 55: 32.56%
- 56 - 65: 2.33%
European Land Total Recordable Incidents by Age (Chart 20)
Based on 64 Incidents

- 36 - 45: 31.25%
- 46 - 55: 28.13%
- 26 - 35: 28.13%
- 18 - 25: 10.94%
- 56 - 65: 1.56%