IADC

IADC ISP PROGRAM

2018

Summary of Occupational Incidents
(European Land Totals)

Issued 15 June 2019
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IADC 2018 European Land Totals (Table 1)

<table>
<thead>
<tr>
<th></th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Man-hours</td>
<td>8,279,494</td>
</tr>
<tr>
<td>Total Medical Treatment Incidents</td>
<td>4</td>
</tr>
<tr>
<td>Total Restricted Work Incidents</td>
<td>0</td>
</tr>
<tr>
<td>Total Lost Time Incidents</td>
<td>16</td>
</tr>
<tr>
<td>Total Fatalities</td>
<td>0</td>
</tr>
<tr>
<td>Total Recordables</td>
<td>20</td>
</tr>
<tr>
<td>MTO Incidence Rate</td>
<td>0.10</td>
</tr>
<tr>
<td>RWC Incidence Rate</td>
<td>0.00</td>
</tr>
<tr>
<td>LTI Incidence Rate</td>
<td>0.39</td>
</tr>
<tr>
<td>LTI Frequency Rate</td>
<td>1.93</td>
</tr>
<tr>
<td>DART Incidence Rate</td>
<td>0.39</td>
</tr>
<tr>
<td>DART Frequency Rate</td>
<td>1.93</td>
</tr>
<tr>
<td>Recordable Incidence Rate</td>
<td>0.48</td>
</tr>
<tr>
<td>Recordable Frequency Rate</td>
<td>2.42</td>
</tr>
</tbody>
</table>

Companies Reporting: Land – 10

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)
IADC 2018 European Land Charts
European Land Total Lost Time Incidents by Month (Chart 1)
Based on 16 Incidents

- December 6.25%
- November 6.25%
- August 6.25%
- July 6.25%
- June 12.50%
- May 6.25%
- April 25.00%
- March 6.25%
- February 12.50%
- January 12.50%
- April 25.00%
- March 6.25%
- February 12.50%
- January 12.50%
- June 12.50%
- July 6.25%
- August 6.25%
- November 6.25%
- December 6.25%
European Land Total Recordable Incidents by Month (Chart 2)
Based on 20 Incidents

- January: 10.00%
- February: 10.00%
- March: 10.00%
- April: 20.00%
- May: 15.00%
- June: 10.00%
- July: 10.00%
- August: 10.00%
- September: 5.00%
- October: 5.00%
- November: 5.00%
- December: 5.00%
European Land Total Lost Time Incidents by Occupation (Chart 3)
Based on 16 Incidents

- Crane Operator (Forklift Operator): 6.25%
- Driller (Asst. Dr.): 12.50%
- Roustabout (Lease Hand): 18.75%
- Floorman: 43.75%
- Derrickman: 18.75%
European Land Total Recordable Incidents by Occupation (Chart 4)
Based on 20 Incidents

Crane Operator (Forklift Operator) 5.00%
Electrician (Electronic Technician) 5.00%
Driller (Asst. Dr.) 20.00%
Derrickman 20.00%
Floorman 35.00%
Roustabout (Lease Hand) 15.00%
European Land Total Lost Time Incidents by Body Part (Chart 5)
Based on 16 Incidents

- Finger(s): 31.25%
- Feet/Ankles: 18.75%
- Elbow(s): 6.25%
- Head: 12.50%
- Back: 12.50%
- Trunk/Torso (chest, abdomen, groin): 6.25%
- Arm(s): 6.25%
- Hand(s) / Wrist(s): 6.25%
European Land Total Recordable Incidents by Body Part (Chart 6)
Based on 20 Incidents

- Finger(s): 35.00%
- Hand(s) / Wrist(s): 10.00%
- Arm(s): 5.00%
- Back: 15.00%
- Trunk/Torso (chest, abdomen, groin): 5.00%
- Elbow(s): 5.00%
- Feet/Ankles: 15.00%
- Head: 10.00%
European Land Total Lost Time Incidents by Incident Type (Chart 7)
Based on 16 Incidents

- Slip/Fall: Same Level: 18.75%
- Caught Between/In: 25.00%
- Struck Against: 6.25%
- Struck By: 18.75%
- Slip/Fall: Different Level: 31.25%

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European Land Total Recordable Incidents by Incident Type (Chart 8)
Based on 20 Incidents

- Slip/Fall: Same Level: 15.00%
- Caught Between/In: 35.00%
- Struck Against: 5.00%
- Struck By: 15.00%
- Strain/Overexertion: 5.00%
- Slip/Fall: Different Level: 25.00%
- Caught Between/In: 35.00%

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European Land Total Lost Time Incidents by Equipment (Chart 9)
Based on 16 Incidents

- Rig Floor Winch/Deck Winch (air/hydraulic) 6.25%
- Elevators 6.25%
- Iron Roughneck, Pipe Spinner, etc. 6.25%
- Decks (grating, walkway) 18.75%
- Ladders 6.25%
- Forklift 6.25%
- Crane 6.25%
- Pressure Hoses/Lines 6.25%
- Material 6.25%
- Hand Tools: Manual 6.25%
- Pipes/Collars/Tubulars/Csg. 25.00%
- Elevators 6.25%

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European Land Total Recordable Incidents by Equipment (Chart 10)
Based on 19 Incidents

- Rig Floor Winch/Deck Winch (air/hydraulic): 5.26%
- Elevators: 5.26%
- Iron Roughneck, Pipe Spinner, etc.: 10.53%
- Pipes/Collars/Tubulars/Csg.: 21.05%
- Slings (rope, cable, chain, web): 5.26%
- Hand Tools: Manual: 5.26%
- Hand Tools: Power: 5.26%
- Material: 5.26%
- Pressure Hoses/Lines: 5.26%
- Forklift: 5.26%
- Crane: 5.26%
- Ladders: 5.26%
- Decks (grating, walkway): 15.79%
European Land Total Lost Time Incidents by Operation (Chart 11)
Based on 16 Incidents

- Well Testing: 18.75%
- Tripping in/out (makeup/brakeout BHA, test tools, etc.): 12.50%
- Running Casing/Tubing (rig up/down csg. tools): 18.75%
- Laying Down/Picking up Pipe/Tubulars: 6.25%
- Material Handling: Forklift: 6.25%
- Routine Drilling Operations: 6.25%
- Rig/Equipment Repairs or Maintenance: 6.25%
- Rigging Up/Down (rig move preparation, rig move): 18.75%
- Walking: 6.25%

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European Land Total Lost Time Incidents by Location (Chart 13)
Based on 16 Incidents

- Pipe Rack/Pipe Deck: 25.00%
- Derrick/Mast (crown, monkey/stabbing board, a-frame): 12.50%
- Mud Pits/Tanks: 6.25%
- Rig Pad/Rig Decks: 6.25%
- Mud Pump Room: 6.25%
- Machinery Spaces: 12.50%
- Cellar / Substructure / Moonpool: 6.25%
- Rig Floor (rotary, pipe set back area): 25.00%
- Pipe Rack/Ship Deck: 25.00%
- Derrick/Mast (crown, monkey/stabbing board, a-frame) 12.50%
European Land Total Recordable Incidents by Location (Chart 14)
Based on 20 Incidents
European Land Total Lost Time Incidents by Time in Service (Chart 15)
Based on 16 Incidents
European Land Total Recordable Incidents by Time in Service (Chart 16)
Based on 20 Incidents

- 10+ yrs. 35.00%
- >5 yrs. < 10 yrs. 5.00%
- >1 yr. < 5 yrs. 35.00%
- >6 mos. < 1 yr. 10.00%
- >3 mos. < 6 mos. 5.00%
- 0 mo. < 3 mos. 10.00%
- 0 mo. < 3 mos. 10.00%
European Land Total Lost Time Incidents by Time of Day (Chart 17)
Based on 16 Incidents

- 14:00: 12.50%
- 13:00: 12.50%
- 22:00: 12.50%
- 23:00: 6.25%
- 21:00: 6.25%
- 16:00: 6.25%
- 17:00: 6.25%
- 12:00: 6.25%
- 10:00: 6.25%
- 7:00: 6.25%
- 6:00: 6.25%
- 5:00: 6.25%
- 3:00: 6.25%
- 13:00: 12.50%
- 14:00: 12.50%
European Land Total Recordable Incidents by Time of Day (Chart 18)

Based on 20 Incidents

- 23:00: 10.00%
- 22:00: 10.00%
- 21:00: 5.00%
- 17:00: 5.00%
- 16:00: 5.00%
- 14:00: 10.00%
- 13:00: 15.00%
- 12:00: 5.00%
- 10:00: 5.00%
- 9:00: 5.00%
- 8:00: 5.00%
- 7:00: 5.00%
- 6:00: 5.00%
- 5:00: 5.00%
- 4:00: 5.00%
- 3:00: 5.00%
- 2:00: 5.00%
- 1:00: 5.00%
- 0:00: 10.00%

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European Land Total Lost Time Incidents by Age (Chart 19)
Based on 16 Incidents

- 26 - 35: 46.15%
- 36 - 45: 23.08%
- 46 - 55: 23.08%
- 56 - 65: 7.69%
European Land Total Recordable Incidents by Age (Chart 20)
Based on 16 Incidents

- 26 - 35: 43.75%
- 36 - 45: 25.00%
- 46 - 55: 25.00%
- 56 - 65: 6.25%