IADC
ISP PROGRAM
2017
Summary of Occupational Incidents
(Africa Land Totals)

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

<table>
<thead>
<tr>
<th>Category</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Man-hours</td>
<td>15,447,105</td>
</tr>
<tr>
<td>Total Medical Treatment Incidents</td>
<td>21</td>
</tr>
<tr>
<td>Total Restricted Work Incidents</td>
<td>8</td>
</tr>
<tr>
<td>Total Lost Time Incidents</td>
<td>11</td>
</tr>
<tr>
<td>Total Fatalities</td>
<td>0</td>
</tr>
<tr>
<td>Total Recordables</td>
<td>40</td>
</tr>
</tbody>
</table>

- **MTO Incidence Rate**: 0.27
- **RWC Incidence Rate**: 0.10
- **LTI Incidence Rate**: 0.14
- **LTI Frequency Rate**: 0.71
- **DART Incidence Rate**: 0.25
- **DART Frequency Rate**: 1.23
- **Recordable Incidence Rate**: 0.52
- **Recordable Frequency Rate**: 2.59

Companies Reporting: Land – 11

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

Africa Land Total Incidence Rates vs Man-hours (Figure 1)
IADC 2017 Africa Land Charts
Africa Land Total Lost Time Incidents by Month (Chart 1)
Based on 11 Incidents

- October 27.27%
- November 9.09%
- January 9.09%
- March 9.09%
- April 18.18%
- June 9.09%
- July 9.09%
- September 9.09%
- October 9.09%
- March 9.09%
- April 9.09%
- May 9.09%
- June 9.09%
- July 9.09%
- August 9.09%
- September 9.09%
- October 9.09%
- November 9.09%
- December 9.09%
Africa Land Total Recordable Incidents by Month (Chart 2)
Based on 38 Incidents

- December 2.63%
- November 7.89%
- October 7.89%
- September 10.53%
- August 5.26%
- July 5.26%
- June 2.63%
- May 10.53%
- April 7.89%
- March 21.05%
- February 13.16%
Africa Land Total Lost Time Incidents by Occupation (Chart 3)
Based on 11 Incidents

- Roustabout (Lease Hand): 18.18%
- Floorman: 36.36%
- Derrickman: 9.09%
- Driller (Asst. Dr.): 9.09%
- Superintendent/other Supervisors: 9.09%
- Crane / Forklift Operator: 9.09%
- Mechanic: 9.09%
- Floorman: 36.36%
Africa Land Total Recordable Incidents by Occupation (Chart 4)
Based on 38 Incidents

- Roustabout (Lease Hand): 21.05%
- Floorman: 36.84%
- Floorman: 36.84%
- Mechanic: 10.53%
- Driller (Asst. Dr.): 7.89%
- Derrickman: 5.26%
- Catering / Camp Personnel: 5.26%
- Maintenance Sup.: 2.63%
- Superintendent/other Supervisors: 2.63%
- Crane / Forklift Operator: 2.63%
- Mechanic: 10.53%
- Driller (Asst. Dr.): 7.89%
- Derrickman: 5.26%
- Catering / Camp Personnel: 5.26%
- Maintenance Sup.: 2.63%
- Superintendent/other Supervisors: 2.63%
- Crane / Forklift Operator: 2.63%
- Mechanic: 10.53%
- Driller (Asst. Dr.): 7.89%
- Derrickman: 5.26%
- Catering / Camp Personnel: 5.26%
- Maintenance Sup.: 2.63%
- Superintendent/other Supervisors: 2.63%
- Crane / Forklift Operator: 2.63%
- Mechanic: 10.53%
- Driller (Asst. Dr.): 7.89%
- Derrickman: 5.26%
- Catering / Camp Personnel: 5.26%
- Maintenance Sup.: 2.63%
- Superintendent/other Supervisors: 2.63%
- Crane / Forklift Operator: 2.63%
- Mechanic: 10.53%
- Driller (Asst. Dr.): 7.89%
- Derrickman: 5.26%
Africa Land Total Lost Time Incidents by Body Part (Chart 5)
Based on 11 Incidents

- Hand(s) / Wrist(s): 36.36%
- Finger(s): 27.27%
- Feet/Ankles: 27.27%
- Trunk/Torso (chest, abdomen, groin): 9.09%
Africa Land Total Recordable Incidents by Body Part (Chart 6)
Based on 38 Incidents

- Skin: 2.63%
- Shoulder(s): 2.63%
- Feet/Ankles: 21.05%
- Leg(s): 5.26%
- Finger(s): 31.58%
- Hand(s) / Wrist(s): 13.16%
- Arm(s): 5.26%
- Trunk/Torso (chest, abdomen, groin): 5.26%
- Head: 13.16%
Africa Land Total Lost Time Incidents by Incident Type (Chart 7)
Based on 11 Incidents

- Struck By: 45.45%
- Cut: 18.18%
- Slip/Fall: Same Level: 18.18%
- Caught Between/In: 18.18%
Africa Land Total Recordable Incidents by Incident Type (Chart 8)
Based on 38 Incidents

- Struck By: 39.47%
- Struck Against: 2.63%
- Caught Between/In: 21.05%
- Cut: 10.53%
- Sprain: 2.63%
- Flame/heat/steam (contact/exposed): 5.26%
- Slip/Fall: Different Level: 7.89%
- Slip/Fall: Same Level: 10.53%
- Cut: 10.53%
- Flame/heat/steam (contact/exposed): 5.26%
Africa Land Total Lost Time Incidents by Equipment
(Chart 9)
Based on 11 Incidents

- Top Drive (blocks, swivel, kelly) 9.09%
- Welding, Cutting, Grinding Equipment 9.09%
- Tongs 9.09%
- Rotary 9.09%
- Cathead/Drawworks 9.09%
- Hand Tools: Manual 9.09%
- Engines/Pumps/Machinery 9.09%
- Material 9.09%
- Forklift 9.09%
- Decks (grating, walkway) 18.18%
Africa Land Total Recordable Incidents by Equipment (Chart 10)
Based on 38 Incidents

- Top Drive (blocks, swivel, kelly) 10.53%
- Tongs 10.53%
- Rotary 5.26%
- Cathead/Drawworks 2.63%
- Hand Tools: Manual 18.42%
- Hand Tools: Power 5.26%
- Engines/Pumps/Machinery 2.63%
- Material 15.79%
- Pressure Hoses/Lines 2.63%
- Rotary 5.26%
- Welding, Cutting, Grinding Equipment 7.89%
- Chemicals (sack, drum, pail, bulk hopper) 2.63%
- Decks (grating, walkway) 7.89%
- Ladders 2.63%
- Forklift 5.26%

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

- Rig Move/Towing/Anchor Handling: 9.09%
- Tripping in/out (makeup/brakeout BHA, test tools, etc.): 9.09%
- Making Connection: 9.09%
- Routine Drilling Operations: 9.09%
- Material Handling: Manual: 9.09%
- Rigging Up/Down (rig move preparation, rig move): 9.09%
- Well Control (BOP) Stack (well head/tree): 9.09%
- Install/Maintenance: 9.09%
- Rig/Equipment Repairs or Maintenance: 27.27%
- Painting (painting related tasks): 9.09%
- Rig Move/Towing/Anchor Handling: 9.09%
Africa Land Total Recordable Incidents by Operation (Chart 12)
Based on 38 Incidents

- Rig Move/Towing/Anchor Handling: 2.63%
- Tripping in/out: 7.89%
- Making Connection: 2.63%
- Routine Drilling Ops: 10.53%
- Running Casing/Tubing (rig up/down csg. tools): 2.63%
- Material Handling Manual: 7.89%
- Material Handling Forklift: 5.26%
- Material Handling Rig Floor: 5.26%
- Rigging Up/Down (rig move preparation, rig move): 13.16%
- Well Control (BOP) Stack (well head/tree) Install/Maintenance: 18.42%
- Paint (painting related tasks): 2.63%
- Running/Retrieving Anchors: 2.63%
- Walking: 5.26%
- Rig/Equipment Repairs or Maintenance: 18.42%
- Cementing: 2.63%
- Rigging Up/Down (rig move preparation, rig move): 13.16%
- Routine Drilling Ops: 10.53%
- Making Connection: 2.63%
- Running Casing/Tubing (rig up/down csg. tools): 2.63%
- Material Handling Manual: 7.89%
- Material Handling Forklift: 5.26%
- Material Handling Rig Floor: 5.26%
- Rigging Up/Down (rig move preparation, rig move): 13.16%
- Well Control (BOP) Stack (well head/tree) Install/Maintenance: 18.42%
- Paint (painting related tasks): 2.63%
- Running/Retrieving Anchors: 2.63%
- Walking: 5.26%
- Rig/Equipment Repairs or Maintenance: 18.42%
Africa Land Total Lost Time Incidents by Location (Chart 13)
Based on 11 Incidents

- Rig Floor (rotary, pipe set back area) 36.36%
- Well Control (BOP) Stack (well head/tree) Area 18.18%
- Rig Pad/Rig Decks (rig/well site/location, yard) 18.18%
- Machinery Spaces 9.09%
- Mud Pits/Tanks 9.09%
- Forklift 9.09%
Africa Land Total Recordable Incidents by Location (Chart 14)
Based on 38 Incidents

- Forklift 2.63%
- Catwalk/V-door 5.26%
- Derrick/Mast (crown, monkey/stabbing board, a-frame) 2.63%
- Mud Mixing Tank/Area 2.63%
- Mud Pits/Tanks 5.26%
- Engine Room/Generator Room 2.63%
- Shale Shaker 2.63%
- Well Control (BOP) Stack (well head/tree) Area 10.53%
- Cellar/Substructure/Moonpool 7.89%
- Living/Camp Areas/Accommodations 7.89%
- Work Rooms (change house, storage house/room) 2.63%
- Rig Pad/Rig Decks (rig/well site/location, yard) 7.89%
- Muck Pits/Tanks 5.26%
- Rig Floor (rotary, pipe set back area) 31.58%
- Machinery Spaces 5.26%
- Mud Mixing Tank/Area 2.63%
Africa Land Total Lost Time Incidents by Time in Service (Chart 15)
Based on 11 Incidents

- 10+ yrs. 63.64%
- >1 yr. < 5 yrs. 18.18%
- >6 mos. < 1 yr. 18.18%
- 0 mo. < 3 mos. 9.09%
- 0 mo. < 3 mos. 9.09%
Africa Land Total Recordable Incidents by Time in Service (Chart 16)
Based on 38 Incidents

- 10+ yrs.: 57.89%
- >5 yrs. < 10 yrs.: 5.26%
- >1 yr. < 5 yrs.: 10.53%
- >6 mos. < 1 yr.: 15.79%
- >3 mos. < 6 mos.: 2.63%
- 0 mo. < 3 mos.: 7.89%
- 0 mo. < 3 mos.: 7.89%
- 0 mo. < 3 mos.: 7.89%
- 0 mo. < 3 mos.: 7.89%
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- 0 mo. < 3 mos.: 7.89%
- 0 mo. < 3 mos.: 7.89%
- 0 mo. < 3 mos.: 7.89%
- 0 mo. < 3 mos.: 7.89%
Africa Land Total Lost Time Incidents by Time of Day (Chart 17)
Based on 11 Incidents
Africa Land Total Recordable Incidents by Time of Day (Chart 18)
Based on 38 Incidents

- 11:00: 7.89%
- 10:00: 7.89%
- 9:00: 5.26%
- 8:00: 5.26%
- 7:00: 5.26%
- 6:00: 5.26%
- 5:00: 2.63%
- 4:00: 2.63%
- 3:00: 2.63%
- 2:00: 2.63%
- 1:00: 2.63%
- 0:00: 2.63%
- 17:00: 18.42%
- 16:00: 2.63%
- 15:00: 5.26%
- 14:00: 7.89%
- 13:00: 2.63%
- 12:00: 2.63%
- 23:00: 2.63%
- 22:00: 7.89%
- 21:00: 2.63%
- 20:00: 2.63%
- 19:00: 2.63%
- 18:00: 2.63%
- 17:00: 2.63%
- 16:00: 2.63%
- 15:00: 5.26%
- 14:00: 5.26%
- 13:00: 2.63%
- 12:00: 2.63%
Africa Land Total Lost Time Incidents by Age (Chart 19)
Based on 11 Incidents

- 46 - 55: 9.09%
- 36 - 45: 36.36%
- 26 - 35: 45.45%
- 18 - 25: 9.09%
Africa Land Total Recordable Incidents by Age (Chart 20)
Based on 38 Incidents

- 26 - 35: 57.89%
- 36 - 45: 21.05%
- 46 - 55: 10.53%
- 56 - 65: 2.63%
- 18 - 25: 7.89%