



ONAC ACREDITA A:

RIG INTEGRITY GENERAL SERVICE AND LIFTING SYSTEM SAS

NIT. 900.590.432-3

Calle 35 A Sur # 34-03 Interior 24, Bogotá D.C., Colombia

La acreditación de este organismo de Evaluación de la Conformidad se ha realizado con respecto a los requisitos especificados en la norma:

ISO/IEC 17020:2012

Requisitos para el funcionamiento de diferentes tipos de organismos que realizan la inspección

Esta Acreditación es aplicable al alcance establecido en el anexo de este certificado, identificado con el código:

15-OIN-023

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La vigencia de este certificado puede ser verificada en onac.org.co/directorio-de-acreditados/buscador-por-organismo o escaneando el código QR




Director Ejecutivo

ANEXO DEL CERTIFICADO

RIG INTEGRITY GENERAL SERVICE AND LIFTING SYSTEM SAS SIGLA: RIG SERVICE & LIFTING SAS

15-OIN-023

ACREDITACIONISO/IEC 17020:2012

Alcance de la acreditación aprobado / Documento Normativo

Código ámbito de inspección	Actividad de inspección	Documento normativo	Tipo de organismo de inspección
21	Inspección Visual, Estructural, Mecánica y Operacional de Grúas Móviles y Ferroviarias	<p>ASME B30.5-2021 Mobile and Locomotive Cranes</p> <p>5-1.1 (a) (b) Construction and Characteristics 5-1.1.3 (a)(b)(1), (2), (3), (4), (5), (6), (7), (8), (9), (10), (11) y (12). Load Rating Chart 5-1.3.1 (b) (1),(c) Boom Hoist Mechanism 5-1.3.2 (2) Load Hoist Mechanism. 5-1.3.2 (a)(2)(-a,-b,-c), (a)(4) Load Hoist Mechanism 5-1.4.2 (a),(b) Swing Braking Means and Locking Device 5-1.6.1 (a),(b),(d),(e) General 5-1.6.3 Power Plant Controls 5-1.6.4 Engine Clutch 5-1.7.2 (a),(b) Ropes 5-1.7.4 (a),(b),(c),(d) Sheaves 5-1.8.1 (f) Construction-Seat Belt 5-1.8.2 (a) Platform Cab-Walking Surfaces 5-1.8.3 (b),(c) Access Cab-All Crawler and Wheel-Mounted Cranes 5-1.8.4 Cab Roof 5-1.9.1 (c),(d),(e),(f) Booms 5-1.9.2 Exhaust Gases 5-1.9.3 (e)(1,2) Outriggers 5-1.9.7 (a) Guards for Moving Parts 5-1.9.8 Clutch and Brake Protection 5-1.9.9 Hydraulic and Pneumatic Line Protection 5-1.9.10.1 (a),(b) Two Blocking Features 5-1.9.10.2 Load Indicators, Rated Capacity Indicators, and Rated Capacity Limiters 5-1.9.12 (c),(d),(g) Miscellaneous Equipment 5-2.1 Inspection – General 5-2.1.1 Inspection Classification 5-2.1.1(a) Initial Inspection, 5-2.1.1(b) Regular Inspection (1) Frequent Inspection 5-2.1.1(b) Regular Inspection (2) Periodic Inspection) 5-2.1.2 Frequent Inspection 5-2.1.3 Periodic Inspection 5-2.1.4 Cranes not in regular use 5-2.1.5 Inspection Records 5-2.1.6 Operational Aids 5-2.2.1 (a) Operational Tests 5-2.2.2 Load Testing (a), (b) (1 y 2), (c) (1 y 2) 5-2.3.1(a) (b) Preventive Maintenance 5-2.3.3 (d) Adjustments and Repairs 5-2.3.4 (a) Lubricants 5-2.4 Rope Inspection, Replacement, and Maintenance 5-2.4.1 General 5-2.4.2 Inspection 5-2.4.3 Rope Replacement</p>	A

ANEXO DEL CERTIFICADO

RIG INTEGRITY GENERAL SERVICE AND LIFTING SYSTEM SAS SIGLA: RIG SERVICE & LIFTING SAS

15-OIN-023

ACREDITACIONISO/IEC 17020:2012

Alcance de la acreditación aprobado / Documento Normativo

Código ámbito de inspección	Actividad de inspección	Documento normativo	Tipo de organismo de inspección
		5-3.1.3.1.1 (e) Crane Owner 5-3.2.1.6 Wind Speed device 5-3.3.4 Standard Hand Signals 5-3.4.10 (a) Fire Extinguishers	
21	Inspección Visual, Estructural, Mecánica y Operacional de Ayudas Operacionales	SAEJ159-2002 (R) Rated Capacity System 4 Performance Tolerance Criteria 4.2 Additional Functions 4.2.1 Actual Load 4.2.2 Radius 4.2.3 Boom Length 4.2.4 Boom Angle 4.2.5 Rated Capacity	A
21	Inspección Visual, Estructural, Mecánica y Operacional de Winches	ASME B30.7-2021 Winches 7-2 Inspection, Testing and Maintenance 7-2.1 Inspection 7-2.1.1 General 7-2.1.2 Initial Inspection and test 7-2.1.3 Daily Inspection and Test 7-2.1.4 Frequent Inspection 7.2.1.5 Periodic Inspection 7-2.1.6 Winches Not in Regular Service 7-2.2: Testing 7-2.2.1 Operational Tests 7-2.2.2 (b)(1-4) Load Test 7-2.3 Maintenance 7-2.3.1 Preventive Maintenance 7-2.3.3 (b) Adjustments and Repairs 7-2.3.4 (a) Lubrication 7-2.4: Rope Inspection, Replacement and Maintenance	A
21	Inspección Visual, Estructural, Mecánica y Operacional de Aparejos y Elementos de Izaje Mecánico de Carga (Eslingas de cadena de acero, cables de acero, cuerda sintética, webbing o banda sintética y redonda de polyester)	ASME B30.9-2021 – Slings Alloy Steel Chain Slings 9-1.9 Inspection, Removal, and Repair 9-1.9.2 Initial Inspection 9-1.9.3 Frequent Inspection 9-1.9.4 Periodic Inspection 9-1.9.5 Removal Criteria Wire rope Slings 9-2.9 Inspection, Removal, and Repair 9-2.9.2 Initial Inspection	A

ANEXO DEL CERTIFICADO

RIG INTEGRITY GENERAL SERVICE AND LIFTING SYSTEM SAS SIGLA: RIG SERVICE & LIFTING SAS

15-OIN-023

ACREDITACIONISO/IEC 17020:2012

Alcance de la acreditación aprobado / Documento Normativo

Código ámbito de inspección	Actividad de inspección	Documento normativo	Tipo de organismo de inspección
		<p>9-2.9.3 Frequent Inspection 9-2.9.4 Periodic Inspection 9-2.9.5 Removal Criteria</p> <p>Synthetic Rope Slings 9-4.9 Inspection, Removal, and Repair 9-4.9.2 Initial Inspection 9-4.9.3 Frequent Inspection 9-4.9.4 Periodic Inspection 9-4.9.5 Removal Criteria</p> <p>Synthetic Webbing Slings 9-5.9 Inspection, Removal, and Repair 9-5.9.2 Initial Inspection 9-5.9.3 Frequent Inspection 9-5.9.4 Periodic Inspection 9-5.9.5 Removal Criteria</p> <p>Polyester Roundslings 9-6.9 Inspection, Removal, and Repair 9-6.9.2 Initial Inspection 9-6.9.3 Frequent Inspection 9-6.9.4 Periodic Inspection 9-6.9.5 Removal Criteria</p>	
21	Inspección Visual, Estructural, Mecánica y Operacional de Ganchos	<p>ASME B30.10-2019- Hooks that Support the Load in the Base</p> <p>10.1.8 Identification</p> <p>10-1.10 Inspection, Removal, and Repair 10-1.10.1 Inspection 10-1.10.2 Initial Inspection 10-1.10.3 Frequent Inspection 10-1.10.4 Periodic Inspection 10-1.10.5 Removal Criteria 10-1.10.6 Repairs and Modifications</p> <p>Hooks that Do Not Support a Load in a Direct-Pull Configuration</p> <p>10.2.8 Identification</p> <p>10-2.10 Inspection, Removal, and Repair 10-2.10.1 Inspection 10-2.10.2 Initial Inspection 10-2.10.3 Frequent Inspection</p>	A

ANEXO DEL CERTIFICADO

RIG INTEGRITY GENERAL SERVICE AND LIFTING SYSTEM SAS SIGLA: RIG SERVICE & LIFTING SAS

15-OIN-023

ACREDITACIONISO/IEC 17020:2012

Alcance de la acreditación aprobado / Documento Normativo

Código ámbito de inspección	Actividad de inspección	Documento normativo	Tipo de organismo de inspección
		10-2.10.4 Periodic Inspection 10-2.10.5 Removal Criteria 10-2.10.6 Repairs and Modifications	
21	Inspección Visual, Estructural, Mecánica y Operacional de Aparejos y Elementos de Izaje Mecánico de Carga (Grilletes, tensores, cáncamos de tornillo, cáncamos de tuerca, anillos de levantamiento giratorios, grapas para cable, terminales de cuña, eslabones maestros, anillos, uniones giratorias, bloques de aparejamiento)	<p>ASME B30.26-2015 (Reaffirmed 2020) Rigging Hardware</p> <p>Shackle 26-1.8 Inspection, Repair and Removal 26-1.8.2 Initial Inspection 26-1.8.3 Frequent Inspection 26-1.8.4 Periodic Inspection 26.1.8.5 Removal Criteria</p> <p>Adjustable Hardware 26-2.8 Inspection, Repair and Removal 26-2.8.2 Initial Inspection 26-2.8.3 Frequent Inspection 26-2.8.4 Periodic Inspection 26.2.8.5 Removal Criteria</p> <p>Compression hardware 26-3.8 Inspection, Repair, and Removal 26-3.8.2 Initial Inspection 26-3.8.3 Frequent Inspection 26-3.8.4 Periodic Inspection 26-3.8.5 Removal criteria Links, Rings and Swivels 26-4.8 Inspection, Repair, and Removal 26-4.8.2 Initial Inspection 26-4.8.3 Frequent Inspection 26-4.8.4 Periodic Inspection 26-4.8.5 Removal criteria Rigging Blocks 26-5.8 Inspection, Repair, and Removal 26-5.8.2 Initial Inspection 26-5.8.3 Frequent Inspection 26-5.8.4 Periodic Inspection 26-5.8.5 Removal Criteria</p>	A

ANEXO DEL CERTIFICADO

RIG INTEGRITY GENERAL SERVICE AND LIFTING SYSTEM SAS SIGLA: RIG SERVICE & LIFTING SAS

15-OIN-023

ACREDITACIONISO/IEC 17020:2012

Alcance de la acreditación aprobado / Documento Normativo

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21	Inspección Visual, Estructural, Mecánica y Operacional de Cargadores de Bajo y Alto Alcance	<p>ANSI/ITSDF B56.1-2020 Safety Standard for Low Lift and High Lift Trucks PARTE II Y PARTE III</p> <p>4.2.3 If the truck is equipped with a front-end attachment(s) 4.2.7 Fork extensions shall be designed for the application 4.2.11 Electric power sources trucks shall comply 4.15.1 Warning Device- Every truck shall be equipped with an operator-controlled horn 5.5.1 (a-m) At the Beginning of each shift and before operating the truck</p> <p>6. Maintenance and rebuild Practices 6.1 Operation 6.1.1 Parts Manual and Maintenance manuals 6.1.2 In unusual cases 6.2 (a) (b) Maintenance and Inspection 6.2.3 (a) (b) Operation of truck to check performance shall be conducted in an authorized area where safe clearance exists 6.2.4 Avoid fire hazards 6.2.6 Handle LP gas cylinders with care 6.2.7 Brakes, steering, mechanisms 6.2.8 (a y b) Inspection and Repair of Forks in Service on Fork Lift Truck 6.2.8.1 (a) hasta (g) Inspection 6.2.8.2 (a y b) Repair and testing 6.2.9 Special rough terrain forklift trucks or devices 6.2.10 Fuel system shall be checked for leaks 6.2.11 All hydraulic system shall be regularly inspected 6.2.12 The Truck manufacturer's capacity 6.2.13 Batteries, motors, controllers, limit switches and 6.2.15 Trucks shall be kept in a clean condition 6.2.16 Modifications and additions 6.2.17 Care shall be taken to ensure 7.2.1 The manufacturer shall provide instructions 7.5.2 (a) truck model and truck serial number 7.5.4 (a),(b) On High Lift Trucks 7.5.5 On low lift trucks, the nameplate 7.5.6 (a),(b),(c),(d) On electric trucks, the nameplate(s) 7.5.8 (a),(b),(e),(f) The nameplates for batteries installed 7.5.9 (a),(b),(c),(d),(e) On every removable attachment (excluding fork extensions) 7.5.10 On motorized hand trucks (not hand/rider trucks) 7.17 Travel Direction Control(s) Marking 7.24.1 (b),(c) Load Handling Controls 7.27.1 Forks shall be designed to avoid unintentional unhooking 7.28.2 The load backrest extension, if provided 7.31 Guard for Wheels 7.32 Protection from Moving Parts 7.33 Overtravel Limits 7.35.3 The compartment floor frequented by the operator</p>	A

ANEXO DEL CERTIFICADO

RIG INTEGRITY GENERAL SERVICE AND LIFTING SYSTEM SAS SIGLA: RIG SERVICE & LIFTING SAS

15-OIN-023

ACREDITACIONISO/IEC 17020:2012

Alcance de la acreditación aprobado / Documento Normativo

Código ámbito de inspección	Actividad de inspección	Documento normativo	Tipo de organismo de inspección
		7.39.4 Each fork extension shall be clearly stamped with its individual load rating 7.39.5 Fork extensions shall be designed to avoid unintentional disengagement	
21	Inspección Visual, Estructural, Mecánica y Operacional de Cargadores de Terreno Áspero	<p>ANSI/ITSDF B56.6 – 2021 Safety Standard for Rough Terrain Forklift Trucks PARTE II Y PARTE III</p> <p>5.15.1 Warning Device 6.5.1. (a-t) Before use each day, or at the beginning of each shift 7. Maintenance and Rebuild Practices 7.1 General 7.2 Specification 7.2.2 Operation of the rough terrain forklift 7.2.3 Avoid fire hazards 7.2.4 Properly ventilate work area 7.2.5 Handle LP gas cylinders with care 7.2.6 Brakes, steering, mechanisms 7.2.7 Special rough terrain forklift trucks or devices 7.2.8 Fuel system shall be checked for leaks 7.2.9 All hydraulic system shall be regularly inspected 7.2.10 The rough terrain forklift truck manufacturer's cap. 7.2.11 Rough terrain forklift trucks shall be kept in a clean 7.2.12 Modifications and additions 7.2.13 Care shall be taken to ensure 7.2.15 (a), (b), (c) y (d) Inspection and Repair of Forks 8.5.2. (b-h) The following information shall be provided by the manufacturer on every RTFL truck 8.5.4 Vertical mast rough terrain forklift trucks shall be provided with a clearly legible chart</p>	A
21	Inspección Visual, Estructural, Mecánica y Operacional de Cargadores Articulados	<p>BS EN 474-1:2022 Earth –Moving Machinery-Safety Part 1: General Requirements</p> <p>Annex A. List of significant Hazards 4.2.1 General Requirements 4.3.1.4 Engine Exhaust 4.3.2.2. Pipe and Hoses 4.3.2.3. Alternative opening (emergency exit) 4.3.2.5. 4.3.2.6 Doors and windows y Inner lighting 4.3.3. Roll-over protective structure (ROPS) 4.3.4. Falling-object protective structures (FOPS) 4.4.1. Operator's Seat 4.4.1.1. Operator's Seat-General Requirement 4.5.1. General (a), (b), (c), (d), (e), (f) 4.5.3. Inadvertent activation (a),(b) 4.5.4. Pedals 4.5.5. Emergency attachment lowering (a),(b),(c) 4.5.6. Uncontrolled motion 4.5.8.1-3. Control panels, operating instrumentation and symbols</p>	A

ANEXO DEL CERTIFICADO

RIG INTEGRITY GENERAL SERVICE AND LIFTING SYSTEM SAS SIGLA: RIG SERVICE & LIFTING SAS

15-OIN-023

ACREDITACIONISO/IEC 17020:2012

Alcance de la acreditación aprobado / Documento Normativo

Código ámbito de inspección	Actividad de inspección	Documento normativo	Tipo de organismo de inspección
		<p>4.5.9 Controls of ride-on machinery accessible from ground level 4.6. Steering system, 4.6.1 General 4.7. Brake system, 4.7.1 General 4.8.1. Operator field view, 4.8.2. Lighting, signaling and marking lights and reflex – reflector devices 4.9. Warning devices and safety signs 4.10. Tires and rims 4.11. Stability 4.12.1-6 Lifting device(s) for object handling 4.14.1-4. Protective measures and devices 4.15.1-6. Retrieval, transportation, lifting and towing 4.17.1-6. Electrical and electronic systems 4.18.1-3. Hydraulic system 4.19.1-3. Fuel tanks, hydraulic tank and pressure vessels 4.20. 1-2. Fire protection 4.21 Attachments and Attachment Bracket 4.22. Maintenance 4.22.1. General 4.22.2. Frequent maintenance 4.22.4. Access to the engine compartment 6.2. Warning signs 6.3.1, 6.3.4.1-8. Instruction and information for use and maintenance of the machine 6.3.5. Safety instructions for operation, Annex B, B.8 6.4. Machine marking, (a-L) Annex B, B.6 Falling down protection for the operator</p> <p>BS EN 474-3:2022 Earth –Moving Machinery- Safety Part 3: Requirements for loaders</p> <p>4.5.3. Guarding for loaders 4.6. Stability 4.6.2 Bucket application 4.6.3.1-3. Fork application 4.6.4.1-4. log handling application</p>	
21	Inspección Visual, Estructural, Mecánica y Operacional de Herramientas de Trabajo (Working Tools) para Cargadores.	<p>ANSI/ITSDF B56.6-2021. Safety Standard for Rough Terrain Forklift Trucks PARTE II</p> <p>6.5.1 (s) Operator care- Before use each day 7.2.15 (a), (b), (c) y (d) Inspection and Repair of Forks 8.5.2 (e), (f)(1), (f)(2), (h) Nameplates and Markings</p> <p>BS EN 474-1:2022 Earth –Moving Machinery-Safety Part 1: General Requirements</p> <p>4.11 Stability</p>	A

ANEXO DEL CERTIFICADO

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15-OIN-023

ACREDITACIONISO/IEC 17020:2012

Alcance de la acreditación aprobado / Documento Normativo

Código ámbito de inspección	Actividad de inspección	Documento normativo	Tipo de organismo de inspección
		4.12.1-6 Lifting device(s) for object handling 4.21. Attachments and attachment bracket BS EN 474-3:2022 Earth –Moving Machinery- Safety Part 3: Requirements for loaders 4.6.2. Bucket application 4.6.3.1-3. Fork application 4.6.4.1-4. log handling application	
21	Inspección Visual, Estructural, Mecánica y Operacional de Plataformas Móviles de Trabajo Elevadoras de Personal (MEW/Ps o Manlifts Grupo B, Tipo 3)	ANSI/SAIA Ag2.22-2021 Safe use of Mobile Elevating Work Platforms (MEWPs) 4.3.1.1 Machine manual(s). Manufacturers, dealers, owners, and brokers 4.3.1.2 With each sale, rental or lease, dealers, owners, lessors or brokers 4.5 Modifications 5. Maintenance, Inspection and Repair 5.1. Scheduled Maintenance 5.2. Pre-delivery Inspections, 5.3. Frequent Inspection 5.4. Annual Inspection 5.5. Pre-start Inspection 5.6. Maintenance and Repair Training 5.8. Replacement Parts 5.9. Safety-related Bulletins	A
28	Inspección Visual, Estructural, Mecánica y Operacional de Mangueras y Fittings en Sistemas de Transferencia de lodos y Fluidos Industriales	SAE J1273-202110 Recommended Practices for Hydraulic Hose Assemblies 4. Safety Considerations 4.1 Fluid injections 4.2 Whipping Hose 4.3 Burns from Conveyed Fluids 4.4 Fire and Explosions from Conveyed Fluids 4.5 Fire and explosions from Static-Electric Discharge 4.6 Electrical Shock 4.7 Mechanisms Controlled by Fluid Power 5. Hose Selection and Routing 5.1 System Pressures 5.2 Suction 5.3 External Pressure 5.4 Temperature 5.5 Permeation 5.6 Compatibility Between Hose Materials and Hydraulic Fluids 5.7 Environment (a hasta i) 5.8 Stactic-Electric Discharge 5.9 Sizing 5.10 Unintended Uses	A

ANEXO DEL CERTIFICADO

RIG INTEGRITY GENERAL SERVICE AND LIFTING SYSTEM SAS SIGLA: RIG SERVICE & LIFTING SAS

15-OIN-023

ACREDITACIONISO/IEC 17020:2012

Alcance de la acreditación aprobado / Documento Normativo

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		5.11 Specifications and Standards 5.12 Unusual Applications 5.13 Hose Cleanliness 5.14 Hose Fittings 5.15 Vibration 5.16 Hose Cover Protection 5.17 External Physical Abuse 5.18 Swivel- Type Adapters 5.19 Live Swivel 5.20 Sling and Clamps 5.21 Minimum Bend Radius 5.22 Elbow and Adapters 5.23. Lengths 5.23.1 Motion Absorption 5.23.2 Hose and Machine Tolerances 5.23.3 Hose Length Change Due to Pressure 5.24 Hose Movement and Bending 5.24.1 Bend in Only One Plane to Avoid Twisting 5.24.2 Prevent Hose Bending in More Than One Plane 6 Hose-Assembly Fabrication, 6.1 (a hasta l) Component Inspection 6.6 Reuse of Hose and Fittings 6.9 Assembly Inspection 6.10 Marking 7. Hose Installation and Replacement 7.1 (a, b y c) Pre-Installation Inspection 7.2 Handling During Installation 7.3 Twist Angle and Orientation 7.4 Securement and Protection 7.5 Routing 7.7 System checkouts 7.7.1 to avoid injury during system checkouts 8. Maintenance Inspection 8.1 Inspection Frequency 8.2 Visual Inspection (Hose and Fitting) 8.3 Visual Inspection (All Other Components) 8.4 Functional Test 9. Hose Storage 9.1. (a, b y c) Age Control 9.2 (a hasta o) Storage	
21	Inspección Visual, Estructural, Mecánica y Operacional de Grúas y Monorraíles (con Trolley o Viga Puente Colgante)	ASME B30.17-2020 Cranes and monorails (with underhung trolley or bridge) 17-0.1 Scope B30.17 17-1.1. Markings 17-1.2 Clearances	A

ANEXO DEL CERTIFICADO

RIG INTEGRITY GENERAL SERVICE AND LIFTING SYSTEM SAS SIGLA: RIG SERVICE & LIFTING SAS

15-OIN-023

ACREDITACIONISO/IEC 17020:2012

Alcance de la acreditación aprobado / Documento Normativo

Código ámbito de inspección	Actividad de inspección	Documento normativo	Tipo de organismo de inspección
		17-1.3. General Constructions 17-1.3.1. Crane Runways and Monorail Track (b), (c), (d), (c), (e) 17-1.3.2. Track Supports (a), (b), (d), (c) 17-1.3.3. Foundations and Anchorage (a), (c), (d), (c), (e) 17-1.3.4. Cranes and Monorail System 17-1.3.5. Welded Construction 17-1.3.6. Modifications 17-1.4. Track Switches, Track Openers, and Interlocks 17-1.5. Vertical and Drop or Lift Sections 17-1.6. Cabs – Normal or Skeleton (if provided) 17-1.6.1. Cab Locations and Internal Arrangement 17-1.6.2. Cab Constructions 17-1.6.3. Access To Cab 17-1.6.4. Toolbox 17-1.6.5. Fire extinguisher 17-1.6.6. Lighting 17-1.6.7. Egress 17-1.7. Lubrication 17-1.8. Services Platforms (Footwalks) 17-1.8.1. Constructions of Services Platforms 17-1.9. Stops and Bumpers 17-1.9.1. Runway Stops 17-1.9.2. Trolley Stops 17-1.9.3. Bridge Bumpers (a), (c) 17-1.9.4. Trolley Bumpers (a), (c) 17-1.10. Rail Sweeps 17-1.11. Guards 17-1.11.1. Guards for Moving Parts (a) 17-1.11.2. Guards for Hoisting Ropes (a) 17-1.12. Drop Protection 17-1.13.1. Hoist Brakes 17-1.14. Electrical Equipment 17-1.14.1. General (d), (e) 17-1.14.2. Equipment (a), (b), (c), (d) 17-1.14.3. Controllers (a), (b)(1-4), (c)(1-3), (d)(1-2), (e), (h) 17-1.14.4. Resistors (When Provided) 17-1.14.5. Switches 17-1.14.6. Conductors 17-1.14.7. Permanently Mounted Magnets 17-1.15. Hoisting Equipment 17-1.16. Warning Devices 17-1.18. Trolleys (Carriers) (a), (d) 17-1.19. Technical and Safety- Related Instructions and Manuals 17-1.19.1. General Information (a)(1-8), (b), (c), 17-1.19.2. Translation of Technical and Safety- Related Instructions and Manuals (a) 17-2.1. Inspection	

ANEXO DEL CERTIFICADO

RIG INTEGRITY GENERAL SERVICE AND LIFTING SYSTEM SAS SIGLA: RIG SERVICE & LIFTING SAS

15-OIN-023

ACREDITACIONISO/IEC 17020:2012

Alcance de la acreditación aprobado / Documento Normativo

Código ámbito de inspección	Actividad de inspección	Documento normativo	Tipo de organismo de inspección
		<p>17-2.1.2 Initial Inspection 17-2.1.3 Functional Test Inspection 17-2.1.4 Frequent Inspection 17-2.1.5 Periodic Inspection – Crane or Monorail System 17-2.1.6 Inspection of Cranes and Monorails Not in Regular Use 17-2.2 Testing 17-4.2.2 Preventive Maintenance 17-4.2.4 Adjustments, Repairs, and Replacements 17-4.2.5 Lubrication 17-4.2.6 Chain and Wire Rope Inspection, Replacement, and Maintenance</p> <p>REQUISITOS REFERENCIADOS POR ASME B30.17</p> <p>ASME B30.16–2022 Overhead Underhung and Stationary Hoists 16-0.1 Scope B30.16 16-1.1 Marking 16-1.2 Construction 16-1.2.1 Mechanical Design (a), (e) 16-1.2.2 Electrical Design (Electric-Powered Hoists Only) (b), (c), (d) 16-1.2.3 Controls (Electric- or Air-Powered Hoists Only) (a), (d), (f), 16-1.2.4 Rope Sheaves (Electric- or Air-Powered Hoists Only) (c), (d), (e), 16-1.2.5 Rope Drum (Electric- or Air-Powered Hoists Only) (b) 16-1.2.6 Ropes (Electric- or Air-Powered Hoists Only) 16-1.2.7 Load Sprockets 16-1.2.8 Load Chain (a) 16-1.2.9 Hooks 16-1.2.10 Load Blocks (a), (b) 16-1.2.11 Brakes (a), (b)(1)(-a, -c), (c)(1)(-a, -b) 16-1.2.12 Hand Chain (Hand-Chain-Operated Hoists Only) 16-1.2.13 Overtravel Restraint (Hand-Chain-Operated Hoists Only) 16-1.2.14 Overtravel Protection (Electric- or Air- Powered Hoists Only) 16-1.2.15 Power Failure Protection (Electric- or Air-Powered Hoists Only) 16-1.2.16 Lubrication 16-1.2.17 Manual 16-1.3.1 Procedure (b) 16-1.3.2 Support 16-2.1 Inspection 16-2.1.2 Initial Inspection 16-2.1.3 Preoperation Inspection 16-2.1.4 Frequent Inspection 16-2.1.5 Periodic Inspection 16-2.1.6 Hoists Not in Regular Service 16.2.2 Testing 16-4.3.2 Preventive Maintenance (a), (b), (c), 16-4.3.4 Adjustments, Repairs, and Replacements (a), (b), (c)(1-11), (d) 16-4.3.5 Lubrication (a), (b)</p>	

ANEXO DEL CERTIFICADO

RIG INTEGRITY GENERAL SERVICE AND LIFTING SYSTEM SAS SIGLA: RIG SERVICE & LIFTING SAS

15-OIN-023

ACREDITACIÓN ISO/IEC 17020:2012

Alcance de la acreditación aprobado / Documento Normativo

Código ámbito de inspección	Actividad de inspección	Documento normativo	Tipo de organismo de inspección
		<p>16-4.4 Rope Replacement and Maintenance 16-4.5 Welded Link Chain Replacement and Maintenance 16-4.6 Roller Chain Replacement and Maintenance</p> <p>REQUISITOS REFERENCIADOS POR ASME B30.16: ASME B30.30-2019 Ropes Steel Wire Rope</p> <p>30-1.4 Rope Selection, Minimum Breaking Force, Design Factors, and Other Requirements 30-1.5 Installation, Testing, Maintenance, Replacement, and Rope Rertification 30-1.5.1 Storage and Installation 30-1.5.3 Maintenance 30-1.6 Environmental Conditions 30-1.7.4 Rope End Terminations 30-1.8 Rope Inspection and Removal, Records, and Repair 30-1.8.1 (b) Frequent 30-1.8.1 (c) Periodic 30-1.8.2 Inspection and Removal Criteria</p> <p>Synthetic Rope 30-2.4 Rope Selection, Minimum Breaking Force, Design Factors, and Other Requirements 30-2.5 Installation, Testing, Maintenance, Replacement, and Rope Rertification 30-2.5.1 Storage and Installation 30-2.5.3 Maintenance 30-2.6 Environmental Conditions 30-2.7.4 Rope End Terminations 30-2.8 Rope Inspection and Removal, Records, and Repair 30-2.8.1 (b) Frequent 30-2.8.1 (c) Periodic 30-2.8.2 Inspection and Removal Criteria</p>	

Sitios cubiertos por la acreditación

Sede principal: Calle 35 A Sur No. 34-03 Interior 24, Bogotá D.C., Colombia