

Rig MythBusters Tech Sheet # 2 – Inspection Schedules & Frequencies

RIG PACKAGE IN-FIELD INSPECTION SCHEDULE

Area	6 Month	12 Month	24 Month	60 Month	120 Month
Handling Equipment	CAT III Inspection Handling Equipment	CAT IV Inspection Handling Equipment	CAT IV Inspection Handling Equipment	CAT IV Inspection Handling Equipment	CAT IV Inspection Handling Equipment
Sub Structure & Carrier	CVI & GVI Inspection of Structure and Primary Load Path	CVI & GVI Inspection of Structure and Primary Load Path and NDT of Critical Load Path	CAT III Inspection of Structure with some NDT of critical areas as per API 4G	CVI & GVI Inspection of Structure and Primary Load Path and NDT of Critical Load Path & API 8B Components.	CAT IV Major Inspection of Structure with 100% NDT of critical areas as per API 4G
Lifting & Rigging Equipment*	Lifting & Rigging Equipment Inspections	Lifting & Rigging Equipment Inspections	Lifting & Rigging Equipment Inspections	Lifting & Rigging Equipment Inspections	Lifting & Rigging Equipment Inspections
Fire Appliances	Fire Appliance Inspection	Fire Appliance Inspection	Fire Appliance Inspection	Fire Appliance Inspection	Fire Appliance Inspection
Pressure Relief Valves**		PRV Function Testing (In- Field)	PRV Function Testing (In- Field)	PRV Change Out	PRV Change Out
Gauges***		Gauge Verification Testing (In- Field)	Gauge Verification Testing (In- Field)	Gauge Verification Testing (In- Field)	Gauge Calibration by Certified Vendor
HP Piping		Ultrasonic Thickness Survey of all Hardlines, Fitting & Manifolds	Ultrasonic Thickness Survey of all Hardlines, Fitting & Manifolds	Ultrasonic Thickness Survey of all Hardlines, Fitting & Manifolds	Ultrasonic Thickness Survey of all Hardlines, Fitting & Manifolds
Loaders & Telehandlers	CVI & GVI of Equipment	CVI & GVI of Equipment incl some NDT	CVI & GVI of Equipment incl some NDT	CVI & GVI of Equipment incl some NDT	10 yearly inspection as per OEM requirements
Pressure Vessels****		1 st Year of Service Pressure Vessel Inspection	2 Yearly Pressure Vessel Inspection		10 Yearly Pressure Vessel Inspection
HP Hoses		External & Internal Borescope Inspection	External & Internal Borescope Inspection	External & Internal Borescope Inspection	External & Internal Borescope Inspection



Notes:

*Lifting & Rigging – All lifting equipment to be inspected at least every 6 months. All WAH equipment to be inspected every 3 months by suitably qualified personnel ie operator with WAH certification.

**Pressure Relief Valves – As per AS3788 PRV's can be field function checked every 12 months to ensure correct operation. All PRV's must be changed out at 60 months for certified units.

***Gauges - 12 Monthly Verification of Gauges performed to AS & Edgepoint Services Procedures. Please note that as per API STD 53 Calibration Gauges (ie Crytal Gauges) must be calibrated every 12 months & Critical Gauges (ie accumulator & drillers console gauges) must be calibrated every 36 months to a recognised industry standard ie NATA.

****Pressure Vessels – Must be inspected at the following intervals: Commissioning, after 1 year in operation and then every 2 years after that (based on Hazard Levels and Operating Conditions).

API Terms and Definitions

Category III (CAT III) Inspections

This is Category II inspection plus further inspection, which should include **NDT of critical areas** and may involve some disassembly to access specific components and to identify wear that exceeds the manufacturer's allowable tolerances.

Category IV (CAT IV) Inspections

This is Category III inspection plus further inspection for which the **equipment is disassembled** to the extent necessary to conduct NDT of all primary-load-carrying components as defined by manufacturer. Equipment shall be:

Disassembled in a suitably equipped facility to the extent necessary to permit full inspection of all primary-load-carrying components and other components that are critical to the equipment.

Inspected for excessive wear, cracks, flaws, and deformations.

Corrections shall be made in accordance with the manufacturer's recommendations.

Prior to Category III and Category IV inspections, all foreign material such as dirt, paint, grease, oil, scale, etc. shall be removed from the concerned parts by a suitable method (e.g. paint-stripping, steam-cleaning, grit-blasting).

Critical Area

Highly stressed region of a primary-load-carrying component as defined by the manufacturer.

Expendable Parts

Parts normally used up or consumed in service. Seals, gaskets, filters, packing, V-belts, covers, guards, breathers, drains, and miscellaneous hardware and fasteners.

**Inspection**

Comparison of equipment conformity to predetermined standards, followed by a determination of action required.

Load Test

Test wherein a load is applied under controlled and monitored conditions to verify the serviceability of equipment.

Maintenance

Actions including inspection, adjustments, cleaning, lubrication, testing, and replacement of expendable parts, as necessary to maintain the serviceability of the equipment.

Manufacturer (OEM)

Individual or company that makes or processes equipment or material.

Owner

Individual, legal entity, or organization holding legal title to the equipment.

Primary-Load-Carrying Component

Component of the equipment through which the primary load is carried.

Remanufacture

Action performed on equipment that involves a special process or re-machining.

Repair

Action performed on equipment that involves replacement of parts, other than expendable parts, but excludes remanufacture.

Serviceability

Condition of a piece of equipment at any point in time that affects the ability of the equipment to perform its function(s) as intended.

Testing

Action carried out on a piece of equipment to ensure that it can perform a required function.

User

Individual or company that uses equipment or material or implements standards.