

Basra, North Rumaila, Quality Control Yard - Iraq

Tel: +9647810009138 / +9647834964657

 $\underline{Email: OP@qualitycontrol-iraq.com / hany.akafi@qualitycontrol-iraq.com}$ 

## MASTER BUSHING CAT IV INSPECTION CERTIFICATE

Customer:	DAQING DRILLING COMPANY	Date of Service:	23-MAY-2024	
Well No:		Next inspection	22-NOV-2024	
<b>Type Of Inspection:</b>	CAT IV	Location:	DQ-038	
Report No.:	QC-DQ-05-24-0164-01	Speciation:	API RP 7L	

	<u>PROCEDURE</u>					
The Rig was Equipped w	with Master Bushing the following specification:					
S/N:	JF01					
<b>Inspection Frequency:</b>	6 Month					
<b>Next Inspection Date:</b>	23-Nov-2024					
<b>Equipment Name:</b>	MASTER BUSHING					
Specification:	API RP 7L CAT IV					
The products have been examined and fo						
Quality standards and delivery is thus per	mittea					





















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#### **PROCEDURE**

Master Bushing found stripped down / disassemble condition for inspection. CAT IV Full inspection.

#### Master Bushing Inspection Was Conducted As Per API Standard.

- Removed both halves of the drilling bowls outside of the master bushing using the proper lifting chain sling
- Visually inspected the inner and outer surface areas of the bowl for any burrs and penned-over edges
- Cleaned the inside taper of the insert bowls from any abrasive materials
- Hold a straight edge against the tapered area to measure the tapper length as per OEM recommendations
- Measured the taper angle and throat diameter and compare with OEM recommendations
- Performed MPI on the recess and load-bearing areas of the drilling bowls
- After completing the inspection, Lubricated the back of the drilling bowls before assembling the master bushing
- Inserted the drilling bowls inside the master bushing using the proper lifting chain sling
- Observed the height of the set slips in the master bushing and ensure that it is not riding low in it.
- Prepare and submit the inspection report

Jaafar Badr **Inspector: Customer Reprehensive** 

**Supervisor:** 





















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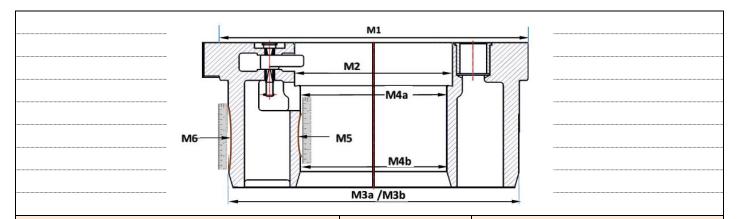
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Master Bushing Parameters	OEM Nominal Specification	The maximum allowable tolerance
Master Bushing Upper Section OD M1:	1014.25 mm - 1015 mm	1005 mm or less than 1005 mm, Reject
Master Bushing Upper Section ID M2:	520.7 mm – 520.95	527 mm or more than 527 mm, Reject
Master Bushing Lower Section OD M3a/M3b:	954.62 mm – 955 mm	945 mm or less than 945 mm, Reject
Master Bushing Lower Section OD M4a/ M4b:	482.6 mm – 482.85 mm	489 mm or more than 489 mm, Reject
The Wear on the outer wall of Master Bushing M5:		More than 3 mm, Reject
The Wear on the outer wall of Master Bushing M6:		More than 3 mm, Reject

#### **PROCEDURE**

\*\* Visual and MPI Was Carried Out On the Available Critical Areas of the Master Bushing and Found Satisfactory for Further Use.

\*\* CAT IV Inspection Was Carried Out On Master Bushing and Found Accepted at The Time of Inspection.

Jaafar Badr **Inspector: Customer Reprehensive** 

Supervisor:





















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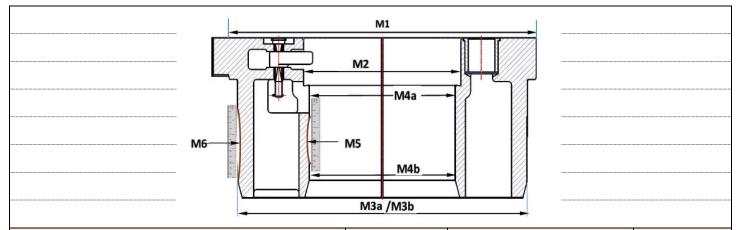
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Measures	Actual Dim.	OEM Requirement	Results	
Master Bushing Upper Section OD M1:	1013.50	1005 mm or less than	Accept	
Master Busining Opper Section OD M1.	mm	1005 mm, Reject	Accept	
Master Bushing Upper Section ID M2:	521 mm	527 mm or more than 527	Accept	
Master bushing opper section ib M2.	321 111111	mm, Reject	Accept	
Master Bushing Lower Section OD M3a/M3b:	953 mm	945 mm or less than 945	Accept	
Master Bushing Lower Section OD M3a/ M3b:	933 11111	mm, Reject	Ассері	
Master Bushing Lower Section OD M4a/ M4b:	483 mm	489 mm or more than 489	Accept	
Master Bushing Lower Section OD M4a/ M4b.	403 11111	mm, Reject	Accept	
The Wear on the outer wall of Master Bushing M5:	0.6	More than 3 mm, Reject	Accept	
			· · · · · ·	
The Wear on the outer wall of Master Bushing M6:	0.8	More than 3 mm, Reject	Accept	

#### **PROCEDURE**

\*\* Visual and MPI Was Carried Out On the Available Critical Areas of the Master Bushing and Found Satisfactory for Further Use.

\*\* CAT IV Inspection Was Carried Out On Master Bushing and Found Accepted at The Time of Inspection.

Jaafar Badr **Inspector: Customer Reprehensive** 

Supervisor:





















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Pic(01) Pic(02)





*Pic*(03) *Pic*(04)

Inspector: Jaafar Badr

Customer Reprehensive

Supervisor:





















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Pic(05) Pic(06)





Pic(07) Pic(08)

Inspector: Jaafar Badr

**Customer Reprehensive** 

Supervisor:





















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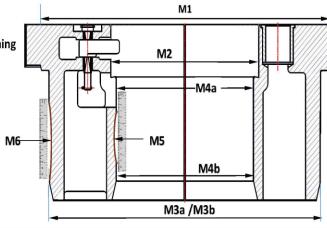
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#### 二、主补芯磨损允量推荐

The allowable wear tolerance for Master Bushing



主补芯检测项点	制造规范	测量工具	磨损量推荐
Master bushing parameters	OEM Specification	Measuring tool	The maximum allowable tolerance
主补芯上沿外径 M1	Ф 1014.24-1015mm	卷尺 tape	小于 1005mm 报废
Master bushing upper section OD M1	Ψ1014.24-1015mm	苍尺 tape	Less than 1005mm, Reject
主补芯上沿内径 M2	Ф 520.7-520.95mm	类只 tono	大于 527mm 报废
Master bushing upper section ID M2	Ψ520.7-520.95ጠጠ	卷尺 tape	More than 527mm, Reject
主补芯下本体外径 M3a/M3b	Ф954.62-955.0mm	卷尺 tape	小于 945mm 报废
Master Bushing lower section OD M3a /M3b	Ψ954.62-955.0ΠΠΠ		Less than 945mm, Reject
主补芯下本体内径 M4a/M4b	Ф482.6-482.85mm	卷尺 tape	大于 489mm 报废
Master Bushing lower section OD M4a /M4b	Ψ462.0-462.65IIIIII		More than 489mm, Reject
主补芯本体外壁磨损量(补芯高度范围内环形凹陷) M5		钢板尺	大于 3mm 报废
The wear on the outer wall of master bushing M5		steel rulers	More than 3mm, Reject
主补芯本体外壁磨损量 M6		钢板尺	大于 3mm 报废
The wear on the outer wall of master bushing M6		steel rulers	More than 3mm, Reject

















