

AI TAKAMUL COMPANY FOR ENGINEERING TESTS AND PROFESSIONAL SAFETY LIMITED

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ULTRASONIC FLAW DETECTION DYE PENETRANT INSPECTION CERTIFICATE 9" NMDC #9A19351

Client Name:	ZHONGMAN PETROLEUM ENGINEERING TECHNOLOGY(HONG KONG) CO LIMITED IRAQ	Report No.:	ZPEC-16-QC-24-08-RS-003
Acceptance criteria:	DS-1 Fifth Edition, Volume 3 CAT 3-5	Date of Inspection:	06.AUG.2024
Work Location:	PO-64	Rig Name:	ZPEC-16(DD)
TEST EQUIPMENT & CONSUMABLE DETAILS			
EQ. Manufacturer/ Model:	Sonatest/ D-50	EQ. Serial No:	I017374
Calibration Due Date:	15.OCT.2024	Couplant:	UT Gel
Calibration Block Type:	V1 (SR # 506233)	Calibration Due Date:	15.OCT.2024
Transducer Angle:	90 DEG, 60 DEG, 45 DEG	Transducer Frequency:	4 MHz/ SR. 13737
Range:	100 mm	Reference dB:	42 dB
Area Scanned:	Connections	Material Velocity:	3250 m/s, 5900 m/s
PENETRANT SKL-WP2	Batch #:220511 Exp: May,2025 Manufacture: Magnaflux	TECHNIQUE 2	TYPE II VISIBLE, METHOD 'A' WATER - WASHABLE
DEVELOPER SKD-S2	Batch #:220302 Exp. March,2025 Manufacture: Magnaflux	DEVELOPER DWELL TIME:	15 Minutes
PENETRANT DWELL TIME:	30 Minutes	Test Part Temperature:	115 °F
INFRARED THERMOMETER	SR#201704125 Cal Due 13.AUG.2024	COMPARATOR BLOCK	SR#11223 CAL.Date. 17. APRIL.2024 CAL.Due Date. 16. OCT .2024
LEAD GAGE	SR#AH07KF0027 GAEMAKER LG-5003 Cal. 13.FEB.2024 Cal Due 12.AUG.2024	THREAD PROFILE GAGE	SR#21336 Cal. 13.FEB.2024 Cal Due 12.AUG.2024 SR#21335 Cal. 15.FEB.2024 Cal Due 14.AUG.2024
Digital Lux Meter	SR#2722003 Cal Due 16.OCT.2024	WMPT Light Intensity:	3500 Lux
Methodology:	<ul style="list-style-type: none"> • Through Visual inspection • Dimensional 3 • UltraSonic Flaw Detection • Dye Penetrant Inspection 		
CONNECTION	7 5/8" Reg	SIZE	9"

Serial No.	Description	Connection		Result Inspection			Dimensional 3 Inspection													
		Pin	Box	Pin	Box	Body	Pin					Box					Body			
							OD(In)	ID(In)	SRG φ(In)	SRG λ(In)	Pin λ(In)	Bevel φ(In)	OD(In)	CB φ(In)	CB δ(In)	BB φ(In)		BB δ(In)	Bevel φ(In)	Overall λ(In)
9A19351	9" NMDC	7 5/8 REG	7 5/8 REG	T.D	T&S.D	Acc.	9"	4"	6 3/8"	15/16"	5 1/4"	8 9/16"	9"	7 2/32	5/8	5 7/8"	9 1/8"	8 9/16"	-	
Conclusion:		<p style="background-color: yellow;">9" NMDC above were found "UnAcceptable" From Pin Connection Thread Damage&Box Connection Thread&Seal Damage Rejected.</p>																		

Abbreviations :

OD Outside Diameter	ID Inside Diameter	SRG Stress Relief Groove	CB Counter Bore	BB Bore Back	FB Float Bore
φ Diameter	λ Length	ω Width	δ Depth	NP. Not Present	NA. Not Applicable
EGR Elevator Groove Recess	SGR Slip Groove Recess	CR Crack	B Bent	PC Premium Class	RF Reface
GT Galled Thread	TP Thread Pitting	SP Seal Pitting	TD Thread Damage	SD Seal Damage	M Mashed
1 100 % Coating	2 99-71 % Coating	3 70-40 % Coating	4 Up to 40 %	5 Nil	WT Wall Thickness
Colors Code:		Red Crack or Extreme Damage.	Blue Damage	Green Seal Damage	Yellow ACFM

Inspector Name:	Review By				
Qualification:	Senior Inspector:	M.USMAN	Supervisor:	M.SARWAR	Customer Name:
Signature:					Customer Signature:

Original - Client Files Copy - Area Office QC/FN/DPI/006 Rev.00 Dated: 07 Nov 2021

