

XXXXXXX

Report No.:xxxxx

XXXXXXX

Attn:

INSPECTION REPORT

From:	Troika Inspection Service Co., Ltd		Report Date:	xxxxxxx
				_
Project No.:	:	xxxxxxxx		
Vendor Name	:	XXXXXXXX		
Factory Name	:	xxxxxxxx		×
Factory Address	:	xxxxxxxx		
Order No. / PO No.	:	XXXXXXXX		
Product description:	:	ART DIN 933-934-125A GR. 8.8 H.	D.G. NUT GRADE 8 ON	E BOLT
Inspection Date:	:	XXXXXXX		

1.0 Scope of Inspection:

To:

(Brief description of details of inspections, tests etc. carried out/witnessed)

Equipment description:	ART DIN 933-934-125A GR. 8.8 H.D.G. NUT GRADE 8 ON	NE BOLT
I.T.P. line number	Inspection Activity	Results
NA	Quantity check	☐ Accepted without deviation☐ Accepted with deviation☐ Reject
NA	Packing check;	□ Accepted without deviation □ Accepted with deviation □ Reject
NA	Marking check;	□ Accepted without deviation □ Accepted with deviation □ Reject
NA	Visual quality check	□ Accepted without deviation □ Accepted with deviation □ Reject
NA	Dimension check	☐ Accepted without deviation ☐ Accepted with deviation ☐ Reject
NA	Thread fit check	☐ Accepted without deviation ☐ Accepted with deviation ☐ Reject
NA	H.D.G. thickness test witness	☐ Accepted without deviation☐ Accepted with deviation☐ Reject
NA	Hardness test witness	☐ Accepted without deviation ☐ Accepted with deviation ☐ Reject
NA	Tensile test witness	□ Accepted without deviation □ Accepted with deviation □ Reject
NA	Proof load test witness of nuts	☐ Accepted without deviation ☐ Accepted with deviation ☐ Reject



2.0 Reason for visit

The purpose of this visit is to carry out the fianl inspection for the nut, bolt and washer listed in PO XXXX according to purchaser order and specification.

3.0 Documentation used

DOCUMENT NUMBER	REV. No.	TITLE	Approval Status
DIN931,DIN933 ,DIN934 DIN125A	X	Nut and bolt standrad	By purchaser
XXXXXXX	X	Purchase Order	By purchaser

4.0 Details of inspection performed

4.1 Quantity Check:

Item	Description of the	noode	Order Qty.	Inspection Qty	/ .
пеш	Description of the (goods	Order Qty.	Packed	Unpacked
1	ART DIN 933-934-125A	M12 STAR 50	300,000pcs	306,000pcs,	0
	GR. 8.8 H.D.G. NUT			300pcs/ctn * 1020ctns	
2	GRADE 8 ONE BOLT	M14 STAR 60	10,000pcs	9,965pcs,	0
	PLUS ONE NUT PLUS			190pcs/ctn * 52ctns,	
	TWO WASHERS	4		85pcs/ctn * 1ctn.	
3		M16 STAR 70	10,000pcs	10,400pcs,	0
3				130pcs/ctn * 80ctns	
4	ARTICLE DIN 931-934-	M24 STAR 90	80,000pcs	81,067pcs,	0
	125A GR. 8.8 H.D.G. NUT			45pcs/ctn * 1,801ctns,	
	GRADE 8 ONE BOLT			22pcs/ctn * 1ctn.	
	PLUS ONE NUT PLUS				
	TWO WASHERS				
	DIN 931 GR. 10.9 BLACK	M24 STAR	3,000pcs	3,031pcs,	0
5	ONE BOLT ONLY	100		50pcs/ctn * 60ctns,	
	ONE BOLT ONET			31pcs/ctn * 1ctn.	
	Total		403,000pcs	410,463pcs, in	0
			403,000pcs	3,016ctns, in 84 pallets	

4.2. Packing Check:

Inner

Certain quantity pcs of bolts were put in carton with a plastic bag of nuts and a plastic bag of washers. (item 5 only bolts in carton)

Outer:

Cartons were packed in wood pallets wrapped with plastic films.

4.3 Marking Check:

Marking on the pallet (a printed paper adhere to the pallet):

No. 30-80# PA

PALLET PACKING LIST

3.8

0.0								
TYPE	SIZE	FINISHED	Q'TY/CTN	CTNS				
DIN933-8.8	8 M16X70	H.D.G.	130SETS	36				



Marking on the carton (had a label):

DIN933-8.8 HEX BOLTS &

DIN934-8 HEX NUTS & 2PCS DIN 125A WASHER H.D.G

SIZE: M16X70 Q'TY: 130SETS Marking on the bolts:

"SUN", "8.8"/ "Sh" "8.8"/ "Sh" "10.9" (convex on the hexagonal head)

4.4 Visual Quality:

Totally 315 pcs of samples were randomly selected for visual quality check according to ANSI/ASQC Standard Z1.4-1993 Level I, no obvious defect found.

4.5 Dimension Check:

Totally 32 sets of samples were selected randomly for dimension check according to ANSI/ASQC Standard Z1.4-1993 S-3, the result were as follows, the required values are according to DIN931 /DIN933 /DIN934 /DIN125A.

Item	Description of the goods	Sampl e		S	е	К	L	L1 (thread)
	M12 STAR 50	6	required	19.00	Min21.1	7.68	50.5	(tilleau)
	bolts	40		18.67		7.32	49.5	
1		18	Actual	18.71-	21.29-	7.54-7.68	49.70-	
				19.00	21.59		50.34	
	M14 STAR 60		required	22.00	min24.49	8.98	60.6	
2	bolts	3		21.67		8.62	59.4	
		3	Actual /	21.90-	24.96-	8.89-8.90	60.00-	
				21.96	24.98		60.25	
	M16 STAR 70		required	24.00	Min26.75	10.18	70.6	
3	bolts	3		23.67		9.82	69.4	
			Actual	23.90-	27.30-	9.87-	69.70-	
				23.99	27.34	10.15	69.84	
	M24 STAR 90		required	36.00	Min39.98	15.22	90.7	
	bolts			35.38		14.78	89.3	
4		6	Actual	35.63-	40.81-	14.99-	89.18-	58.93-
				35.73	41.13	15.12	89.66	59.97
	140 / 671					4= 00	1pc:89.18	
	M24 STAR 100		required	36.00	Min39.98	15.22	100.7	
5	bolts	2		35.38	40.04	14.78	99.3	00.07
			Actual	35.64-	40.94-	14.54-	99.51-	60.27-
	Description of the	0		35.65	40.96	15.00	99.80	61.67
Item	Description of the	Sampl		S	е	Н		
	goods M12 STAR 50	е		40.00	MinOd d	40.00		
	nuts		required	19.00 18.67	Min21.1	10.00 9.64		
1	Tiuls	18	Actual	18.78-	21.48-	10.33-		
			Actual	18.90	21.46-	10.33-		
	M14 STAR 60		required	22.00	Min24.49	11.00		
	nuts		required	21.67	14111124.49	10.30		
2	Tiuto	3	Actual	21.90-	24.90-	10.30		
_			Actual	21.94	21.94	11.02		
				21.07	21.04	1pc:11.02		
3	M16 STAR 70	3	required	24.00	Min26.75	13.00		
							I .	



	nuts			23.67		12.30		
			Actual	23.83-	27.15-	12.82-		
				23.90	27.37	12.86		
	M24 STAR 90		required	36.00	Min39.55	19.00		
4	nuts	6		35.00		17.70		
4		O	Actual	35.21-	40.33-	18.05-		
				35.32	40.38	18.67		
Item	Description of the	Sampl		d1	d2	s		
псп	goods	е						
	M12 STAR 50		required	13	24	2.5	K	
	nuts		Actual	12.66-	23.74-	2.36-2.55		
1		18		13.10	24.43			
				1pc:12.66	1pc:24.43			
				1pc:12.83			ĺ	
	M14 STAR 60		required	15	28	2.7		
2	nuts	3				2.3		
_		Ū	Actual	14.88-	27.88-	2.67-2.70		
				14.94	27.98			
	M16 STAR 70		required	17	30	3		
	nuts	_	Actual	16.85-	29.50-	3.10-3.31		
3		3		17.03	29.55	•		
				1pc:16.85,	~ <i>y</i>			
	NACA OTAB CO			1pc:16.98				
1 ,	M24 STAR 90		required	25	44	4		
4	nuts	6	Actual	25.06-	43.63-	3.88-4.01		
				25.13	43.87			

Remark:

The bold figure in above form means the value exceeded standard limits, the result need to be confirmed by buyer.

4.6 Thread Fit Check:

Totally 32 sets of sample bolts were selected randomly for Thread fit check according to ANSI/ASQC Standard Z1.4-1993 S-3, 1 pc of M16 nut can't pass the bolt (3 samples), 2 pcs of M24 bolts can't pass nuts (6 samples), there was 1 thread damaged in each of these 2 bolts, after damaged thread repaired, these two bolts can pass nuts. The results need to be confirmed by client.

4.7 H.D.G. Thickness test witness:

Totally 6 sets of samples (Item 3: M16 STAR 70, Item 4: M24 STAR 90) were selected randomly for H.D.G. Thickness test, for Item 1 and 2 there is no sufficient plain surface to execute this test; For Item 5 no H.D.G. paint.

	Unit (mm)	SAMPLES	Thickness (BOLTS)	Thickness (NUTS)	Thickness (WASHERS)
3	M16 STAR 70	3	0.049~0.087	0.064~0.081	0.053~0.079
4	M24 STAR 90	3	0.058~0.083	0.051~0.088	0.060~0.080

4.8 Hardness Test Witness:

Totally 13 sets of samples were selected randomly for hardness test according to ANSI/ASQC Standard Z1.4-1993 S-2, the result were as follows, the required values are according to ISO898.1

item	Description	of	the	Sample	Required (HRC)	Actual(HRC)

	goods				
1	M12 STAR 50	5	bolts	22-32	29.7-31
			nuts	14-32	27-30.3
2	M14 STAR 60	2	bolts	22-32	30.5-32
			nuts	14-32	29-30.5
3	M16 STAR 70	2	bolts	22-32	29.2-31
			nuts	14-32	28.5-30.7
4	M24 STAR 90	2	bolts	23-34	28-29.3
			nuts	11-32	33-33.3
5	M24 STAR 100	2	bolts	32-39	36.7 <mark>-3</mark> 7.7

Remark:

The bold figure in above form means the value exceeded standard limits, the result need to be confirmed by buyer.

4.9 Tensile Test Witness:

Totally 13 sets of samples were selected randomly for tensile test according to ANSI/ASQC Standard Z1.4-1993 S-2, the result were as follows, the required values are according to ISO898.1

item	Description of the goods	Sample	Required (Mpa)	Actual(Mpa)
1	M12 STAR 50 Bolts	5	>=800	852.30-893.85
2	M14 STAR 60 Bolts	2	>=800	929.58-939.45
3	M16 STAR 70 Bolts	2	>=800	892.23-932.16
4	M24 STAR 90 Bolts	2	>=830	870.45-884.29
5	M24 STAR 100 Bolts	2	>=900	1130.58-1182.41

The results were acceptable according to ISO898.1

4.10 Nuts Proof Load Test Witness:

Totally 13 sets of samples were selected randomly for tensile test according to ANSI/ASQC Standard Z1.4-1993 S-2, the result were as follows, the required values are according to DIN267-T10 H.D.G. nuts

		//			
item	Description of the goods		Sample	Required (Mpa)	Actual
1	M12 STAR 50 nuts		5	>=800	OK
2	M14 STAR 60 nuts		4	>=800	30K, 1 failed
3	M16 STAR 70 nuts		2	>=800	OK
4	M24 STAR 90 nuts		2	>=830	OK
5	M24 STAR 100		0	No nuts	

Remark:

The bold figure in above form means the value exceeded standard limits, the result need to be confirmed by buyer.

5.0. Result of Inspection

ı	☐ Accepted with	out i	deviation 🔯	Accepted with deviation	Reject

6.0. Quality Records reviewed and attached:

Material test certificate Dimension record Packing list

7.0 Progress Status

All of the cargo are ready for shipment if client can accept the inspection result.



8.0 Next Forecasted Inspection Date:

TBA;

9.0 Attendees

- Mr. XXX supplier inspector
- Mr. XXX TIS inspector on behalf of XXX

Any deviation & PUNCH attached : Yes⊠ No, □	Punch No.: XXX	X	
IRN attached : Yes ☐ No, ☐	IRN No.: NA		

10. Photo Report









Prepared by : xxxxx	Reviewed by : xxxxxxxx
Signed: xxxxxx	
Detai vyvyv	
Date: xxxxx	

