



Laboratory Test Report

PRIVATE SAMPLE

REPORT UID: 20210119162552-V1

KEBS Sample Ref. No: BS202101943

Date : 26 April, 2021

1. Description of Sample: Reinforcement Steel Bars

2. Sample Submitted by: Tononoka Rolling Mills

6. Lab Ref: KEBS/TES/MEC-NAR/M/21

3. Customer Contact: Timothy Nduati

7. Date of Receipt: 21 April, 2021

4. Customers Ref No: Private

8. Date Analysis Started: 22 April, 2021

5. Customer's Address: P.O Box 44689-00100, Nairobi, Kenya

9. Sample Submission Form No: 244112

10. Additional Information provided by the customer:

D8 – TNK 8 B500BWR

11. Acceptance criteria-title and number of specification against which it is tested:

ISO EAS 412-2:2019 EAST AFRICAN STANDARD Steel for reinforcement of concrete-Part 2: Ribbed Bars

12. Parameters tested and Method(s) of test: as listed in the report below:

LABORATORY TEST REPORT					
No.	Parameters	Results	Requirements	Test Method No.	LOD
1.	Bend	No cracks	shall show neither rupture nor cracks visible to the a person of EAS 412-2 normal or corrected vision		
2.	Mass/metre run	kg/m 0.384	0.363-0.427	EAS 412-2	
3.	Re-bend	No cracks	Shall not fracture or show cracks at the bend, visible to the naked eye	EAS 412-2	
4.	Tensile strength				
I	Elongation (Grade 500)	% 21	14Min	EAS 412-2	
II	Specified Characteristic Value of Rm/ReH(500)	Rm/Reh 1.18	1.08Min	EAS 412-2	
III	Yield stress (Grade 500)	N/mm ² 587	500Min	EAS 412-2	

COMMENTS/REMARKS:

The sample performed as shown

Charles Mugambi - Laboratory Analyst (Mechanical)

26 April, 2021

FOR: MANAGING DIRECTOR

Date of Issue

The results contained herein apply only to the particular sample(s) tested whose sample submission form serial number is herein quoted, and to the specific tests carried out, as detailed in this Test Report. No extract, abridgement or abstraction from a Test Report may be published or used to advertise a product without the written consent of the Managing Director, KENYA BUREAU OF STANDARDS. If undelivered, please return to the address written above.



Laboratory Test Report

PRIVATE SAMPLE

REPORT UID: 20210119164547-V1

KEBS Sample Ref. No: BS202101944

Date : 26 April, 2021

1. Description of Sample: Reinforcement Steel Bars

2. Sample Submitted by: Tononoka Rolling Mills

6. Lab Ref: KEBS/TES/MEC-NAR/M/21

3. Customer Contact: Timothy Nduati

7. Date of Receipt: 21 April, 2021

4. Customers Ref No: Private

8. Date Analysis Started: 22 April, 2021

9. Sample Submission Form No: 244112

5. Customer's Address: P.O Box 44689-00100, Nairobi, Kenya

10. Additional Information provided by the customer: D10 - TNK 10 B500BWR

11. Acceptance criteria-title and number of specification against which it is tested:

EAS 412-2:2019 EAST AFRICAN STANDARD Steel for reinforcement of concrete-Part 2: Ribbed Bars

12. Parameters tested and Method(s) of test: as listed in the report below:

LABORATORY TEST REPORT

Table with 5 columns: No., Parameters, Results, Requirements, Test Method No., LOD. Contains 7 rows of test data including Bend, Mass/metre run, Re-bend, and Tensile strength (Elongation, Rm/ReH, Yield stress).

COMMENTS/REMARKS:

The sample performed as shown

[Handwritten Signature]

Charles Mugambi - Laboratory Analyst (Mechanical)

26 April, 2021

FOR: MANAGING DIRECTOR

Date of Issue

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PRIVATE SAMPLE

REPORT UID: 20210119164671-V1

KEBS Sample Ref. No: BS202101945

Date: 26 April, 2021

1. Description of Sample: Reinforcement Steel Bars

2. Sample Submitted by: Tononoka Rolling Mills

6. Lab Ref: KEBS/TES/MEC-NAR/M/21

3. Customer Contact: Timothy Nduati

7. Date of Receipt: 21 April, 2021

4. Customers Ref No: Private

8. Date Analysis Started: 22 April, 2021

5. Customer's Address: P.O Box 44689-00100, Nairobi, Kenya

9. Sample Submission Form No: 244112

10. Additional Information provided by the customer: D12 – TNK 12 B500BWR

11. Acceptance criteria-title and number of specification against which it is tested:

EAS 412-2:2019 EAST AFRICAN STANDARD Steel for reinforcement of concrete-Part 2: Ribbed Bars

12. Parameters tested and Method(s) of test: as listed in the report below:

LABORATORY TEST REPORT

No.	Parameters	Results	Requirements	Test Method No.	LOD
1.	Bend	No cracks	shall show neither rupture nor cracks visible to the a person of EAS 412-2 normal or corrected vision		
2.	Mass/metre run	kg/m 0.872	0.835-0.941	EAS 412-2	
3.	Re-bend	No cracks	Shall not fracture or show cracks at the bend, visible to the naked eye	EAS 412-2	
4.	Tensile strength				
I	% Elongation	% 20	14Min	EAS 412-2	
II	Specified Characteristic Value of Rm/ReH(500)	1.15	1.08Min	EAS 412-2	
III	Yield stress (Grade 500)	N/mm ² 559	500Min	EAS 412-2	

COMMENTS/REMARKS:

The sample performed as shown

Charles Mugambi - Laboratory Analyst (Mechanical)

26 April, 2021

FOR: MANAGING DIRECTOR

Date of Issue

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Laboratory Test Report

PRIVATE SAMPLE

REPORT UID: 20210119165318-V2

KEBS Sample Ref. No: BS202101946

Date : 26 April, 2021

1. Description of Sample: Reinforcement Steel Bars

2. Sample Submitted by: Tononoka Rolling Mills

6. Lab Ref: KEBS/TES/MEC-NAR/M/21

3. Customer Contact: Timothy Nduati

7. Date of Receipt: 21 April, 2021

4. Customers Ref No: Private

8. Date Analysis Started: 22 April, 2021

9. Sample Submission Form No: 244112

5. Customer's Address: P.O Box 44689-00100, Nairobi, Kenya

10. Additional Information provided by the customer: D16 - TNK 16 B500BWR

11. Acceptance criteria-title and number of specification against which it is tested:

EAS 412-2:2019 EAST AFRICAN STANDARD Steel for reinforcement of concrete-Part 2: Ribbed Bars

12. Parameters tested and Method(s) of test: as listed in the report below:

LABORATORY TEST REPORT					
No.	Parameters	Results	Requirements	Test Method No.	LOD
1.	Bend	No cracks	shall show neither rupture nor cracks visible to the a person of EAS 412-2 normal or corrected vision		
2.	Mass/metre run	kg/m 1.552	1.501-1.659	EAS 412-2	
3.	Re-bend	No cracks	Shall not fracture or show cracks at the bend, visible to the naked eye	EAS 412-2	
4.	Tensile strength				
I	Elongation (Grade 500)	% 22	14Min	EAS 412-2	
II	Specified Characteristic Value of Rm/ReH(500)	Rm/Reh 1.17	1.08Min	EAS 412-2	
III	Yield stress (Grade 500)	N/mm ² 584	500Min	EAS 412-2	

COMMENTS/REMARKS:

The sample performed as shown

Charles Mugambi - Laboratory Analyst (Mechanical)

26 April, 2021

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Laboratory Test Report

244112

PRIVATE SAMPLE

REPORT UID: 20210119166122-V2

KEBS Sample Ref. No: BS202101947

Date : 26 April, 2021

1. Description of Sample: Reinforcement Steel Bars

2. Sample Submitted by: Tononoka Rolling Mills

6. Lab Ref: KEBS/TES/MEC-NAR/M/21

3. Customer Contact: Timothy Nduati

7. Date of Receipt: 21 April, 2021

4. Customers Ref No: Private

8. Date Analysis Started: 22 April, 2021

9. Sample Submission Form No: 244112

5. Customer's Address: P.O Box 44689-00100, Nairobi, Kenya

10. Additional Information provided by the customer: D20 - TNK 20 B500BWR

11. Acceptance criteria-title and number of specification against which it is tested:

EAS 412-2:2019 EAST AFRICAN STANDARD Steel for reinforcement of concrete-Part 2: Ribbed Bars

12. Parameters tested and Method(s) of test: as listed in the report below:

LABORATORY TEST REPORT

No.	Parameters	Results	Requirements	Test Method No.	LOD
1.	Bend	No cracks	shall show neither rupture nor cracks visible to the a person of EAS 412-2 normal or corrected vision		
2.	Mass/metre run	kg/m 2.421	2.346-2.593	EAS 412-2	
3.	Re-bend	No cracks	Shall not fracture or show cracks at the bend, visible to the naked eye	EAS 412-2	
4.	Tensile strength				
I	Elongation (Grade 500)	% 19	14Min	EAS 412-2	
II	Specified Characteristic Value of Rm/ReH(500)	Rm/Reh 1.15	1.08Min	EAS 412-2	
III	Yield stress(Grade 500)	N/mm ² 561	500Min	EAS 412-2	

COMMENTS/REMARKS:

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Charles Mugambi - Laboratory Analyst (Mechanical)

26 April, 2021

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Laboratory Test Report

PRIVATE SAMPLE

REPORT UID: 20210119165539-V2

KEBS Sample Ref. No: BS202101949

Date : 26 April, 2021

1. Description of Sample: Reinforcement Steel Bars-

2. Sample Submitted by: Tononoka Rolling Mills

6. Lab Ref: KEBS/TES/MEC-NAR/M/21

3. Customer Contact: Timothy Nduati

7. Date of Receipt: 21 April, 2021

4. Customers Ref No: Private

8. Date Analysis Started: 22 April, 2021

9. Sample Submission Form No: 244112

5. Customer's Address: P.O Box 44689-00100, Nairobi, Kenya

10. Additional Information provided by the customer: D25 - TNK 25 B500BWR

11. Acceptance criteria-title and number of specification against which it is tested:

EAS 412-2:2019 EAST AFRICAN STANDARD Steel for reinforcement of concrete-Part 2: Ribbed Bars

12. Parameters tested and Method(s) of test: as listed in the report below:

LABORATORY TEST REPORT					
No.	Parameters	Results	Requirements	Test Method No.	LOD
1.	Bend	No cracks	shall show neither rupture nor cracks visible to the a person of EAS 412-2 normal or corrected vision		
2.	Mass/metre run	kg/m 3.742	3.696-4.004	EAS 412-2	
3.	Re-bend	No cracks	Shall not fracture or show cracks at the bend, visible to the naked eye	EAS 412-2	
4.	Tensile strength				
I	Elongation (Grade 500)	% 20	14Min	EAS 412-2	
II	Specified Characteristic Value of Rm/ReH(500)	Rm/Reh 1.17	1.08Min	EAS 412-2	
III	Yield stress (Grade 500)	N/mm ² 568	500Min	EAS 412-2	

COMMENTS/REMARKS:

The sample performed as shown

Charles Mugambi - Laboratory Analyst (Mechanical)

26 April, 2021

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Laboratory Test Report

PRIVATE SAMPLE

REPORT UID: 20210119159737-V2

KEBS Sample Ref. No: BS202101951

Date : 26 April, 2021

1. Description of Sample: Reinforcement Steel Bars

2. Sample Submitted by: Tononoka Rolling Mills

6. Lab Ref: KEBS/TES/MEC-NAR/M/21

3. Customer Contact: Timothy Nduati

7. Date of Receipt: 21 April, 2021

4. Customers Ref No: Private

8. Date Analysis Started: 22 April, 2021

9. Sample Submission Form No: 244112

5. Customer's Address: P.O Box 44689-00100, Nairobi, Kenya

10. Additional Information provided by the customer: D 32- TNK 32 B500BWR

11. Acceptance criteria-title and number of specification against which it is tested:

EAS 412-2:2019 EAST AFRICAN STANDARD Steel for reinforcement of concrete-Part 2: Ribbed Bars

12. Parameters tested and Method(s) of test: as listed in the report below:

LABORATORY TEST REPORT					
No.	Parameters	Results	Requirements	Test Method No.	LOD
1.	Bend	No cracks	shall show neither rupture nor cracks visible to the a person of EAS 412-2 normal or corrected vision		
2.	Mass/metre run	kg/m 6.187	6.061-6.566	EAS 412-2	
3.	Re-bend	No cracks	Shall not fracture or show cracks at the bend, visible to the naked eye	EAS 412-2	
4.	Tensile strength				
I	Elongation (Grade 500)	% 24	14Min	EAS 412-2	
II	Specified Characteristic Value of Rm/ReH(500)	Rm/Reh 1.20	1.08Min	EAS 412-2	
III	Yield stress (Grade 500)	N/mm ² 572	500Min	EAS 412-2	

COMMENTS/REMARKS:

The sample performed as shown

Charles Mugambi - Laboratory Analyst (Mechanical)

26 April, 2021

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