

MANUFACTURER **ALSTOM** Ubunye
 Marievale Road, Vosterkroon, Nigel, 1490

CUSTOMER **Gibela**

CONTRACT

PROJECT **PRASA**

MANUFACTURER'S DELIVERY DOCUMENT

PRODUCT TYPE **MOTOR BOGIE MB1**

DTR0009706804

SERIAL NUMBER **MB1 1361**

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- Load test report.....	1 page	<input checked="" type="checkbox"/>
- Motor certificate.....	8 pages	<input checked="" type="checkbox"/>

COMPLIANCE CERTIFICATE

We hereby declare, barring exceptions, reservations, or exemptions listed in this statement of conformity, that the listed supplies comply with the contract requirements and that, after completions of testing and verification, they completely satisfy all specified requirements and applicable standards and regulations.

CONSTRUCTOR APPROVAL

DATE	07 March 2024
NAME	Kwababana Hlumisa
VISA	<i>PP - RAPC</i>



ALSTOM UBUNYE

PRODUCTS TRACEABILITY

Products Designation	Product Reference	Serial Number	Batch or Date Manufactured	Supplier
Motor Bogie MB1	DTR0009706804	1361		Alstom - Ubunye
Motor Bogie Frame	AR00000176080	1662		Alstom - Ubunye
Wheelset (Front)	AR000000177020	M03085		Alstom - Ubunye
Axle with fitted gearbox	AR00000177072	K3241		NGC
Wheel (Right)	AR00000174670	107	02-23	Bonatrans
Wheel (Left)	AR000000174670	101	02-23	Bonatrans
Wheelset (Rear)	AR00000178600	M3086		Alstom - Ubunye
Axle with fitted gearbox	AR00000177072	K3269		NGC
Wheel (Right)	AR00000174670	033	02-23	Bonatrans
Wheel (Left)	AR00000174670	070	02-23	Bonatrans
Pneumatic suspension (Right)	AR00000176127	2309071		Hutchinson
Pneumatic suspension (Left)	AR00000176127	2309049		Hutchinson
Brake unit with PB (Right rear)	AR00000174544	1633	02-24	WEBTEC
Brake unit without PB (Right front)	AR00000175185	4924	02-24	WEBTEC
Brake unit without PB (Left Front)	AR00000175185	4925	02-24	WEBTEC
Brake unit without PB (left rear)	AR00000175185	4918	02-24	WEBTEC
Motor (front)	AR00000168516	21387		GIBELA
Motor (Rear)	AR00000168516	21329		GIBELA

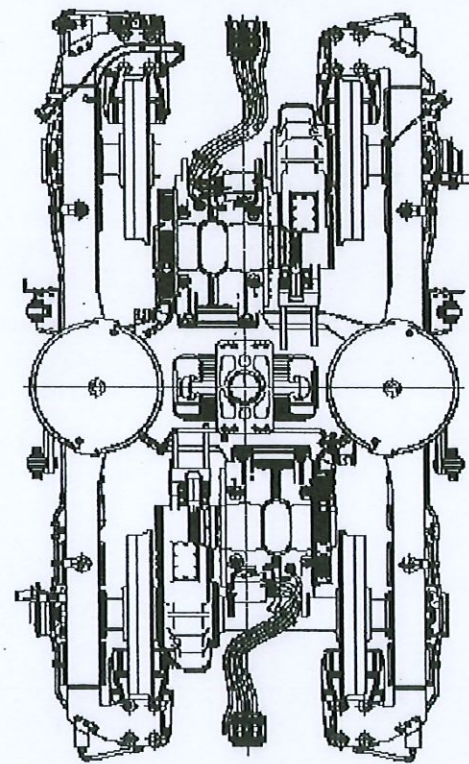
QC: 018
Revision: 1.0

DATE 3/6/2024	PRESSING REPORT	
DATE VALIDATION	PRASA	ALSTOM
RESPONSABLE VALIDATION	INSTRUCTION SHEET:	
	FAMILY:	
	LOAD TEST : MOTOR BOGIE	
	PROJECT:	

THEORETICAL		SECONDARY SUSPENSION		THEORETICAL	
WHEEL DIAMETER [mm]	MIN MAX	SHIM THICK [mm]	DIM. WITH SHIM [mm]	MIN	MAX
GAP PRIMARY SUSPENSION [mm]	33.00 39.00	+	2.00	587.06	585.00 587.50
SHIM THICK [mm]					
WEIGHT ON WHEEL [Kg]					

RIGHT JACK LOAD	7373	Kg
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WHEEL DIAMETER [mm]	MIN MAX	THEORETICAL	MEASURED
GAP PRIMARY SUSPENSION [mm]	33.00 39.00		38.87
SHIM THICK [mm]			
WEIGHT ON WHEEL [Kg]		Q4	5521



BOGIE SERIAL N°	MB1-1361
BOGIE TYPE	MB
BOGIE WEIGHT UNDER LOAD [Kg]	22363
COMPLETE BOGIE WEIGHT [Kg]	7285
OPERATOR	NICO
DATE	3/6/2024

OPERATOR STAMP	DC-3FI-6
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THEORETICAL		MEASURED	
LOAD DIFFERENCE ON FRONT AXLE [%]	MIN MAX	0.00 0.00	-0.98
LOAD DIFFERENCE ON REAR AXLE [%]	MIN MAX	0.00 0.00	1.53
LOAD DIFFERENCE FRONT AXLE AND REAR AXLE [%]	MIN MAX	0.00 0.00	-0.29
LOAD DIFFERENCE ON RAILS [%]	MIN MAX	0.00 0.00	0.28
LOAD DIFFERENCE ON DIAGONAL WHEELS [%]	MIN MAX	0.00 0.00	1.26

LEFT JACK LOAD

7376

Kg

THEORETICAL		SECONDARY SUSPENSION		THEORETICAL	
WHEEL DIAMETER [mm]	MIN MAX	SHIM THICK [mm]	DIM. WITH SHIM [mm]	MIN	MAX
GAP PRIMARY SUSPENSION [mm]	33.00 39.00	+	0.00	587.20	585.00 587.50
SHIM THICK [mm]					
WEIGHT ON WHEEL [Kg]					

DIFFERENCE IN RIGHT AND LEFT SUSPENSION HEIGHTS [mm]	-0.14	THEORETICAL	MEASURED
		MIN MAX	-1.00 1.00

WHEEL DIAMETER [mm]	MIN MAX	THEORETICAL	MEASURED
GAP PRIMARY SUSPENSION [mm]	33.00 39.00		38.10
SHIM THICK [mm]			
WEIGHT ON WHEEL [Kg]		Q3	5693



CERTIFICATION OF CONFORMITY

Inspection certificate according EN 10204-3.1

Product: Traction Motors 6 ECA 3022 B

Serial Number: N ° 21387

Client / Customer: ALSTOM UBUNYE (PTY) LTD

Project: PRASA

P O Number: 76336931

Status: QC PASS

Derogations / Concession / Waiver N °: N/A

Customer modification: N/A

Missing parts: N/A

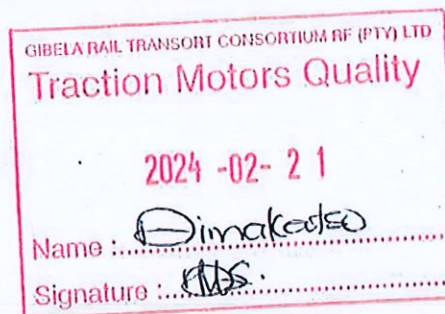
We hereby declare, barring exceptions, reservations or exemptions listed in this statement of conformity, that the listed supplies comply with the contract requirements and that, after completion of testing and verification, they completely satisfy all specified requirements, and applicable standards and regulations.

Date: 2024/02/21

Function: Final Inspection

Performed and signed off by: Name _____ Dimakatso Mohoalali

Signature _____



Gibela Rail
02 Shosholozwa Avenue
M07 Traction Motor
1590

GIBELA RAIL

Compiled by M Kola

Date: 22/2/2022

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21387

ALSTOM

GIBELTA

FINAL ASSEMBLY REPORT FOR THE MOTOR 6 ECA 3022 B - PRASA

Référence: TROS 916.216

Révision: 2

Documents de référence: AT00000325953 - AT00000325990

Assembly before test

Date: 09/10/23

Name: XOLANI

Assembly after test

Date: 16/10/24

Name: XOLANI & THOMAS

ROTOR S/N		STATOR S/N	
MCR22-11-020		CTIB-1404	
<p>Bearing lubrication - Security operation</p> <p>Incorrect lubrication can lead to engine failure with a safety risk in service</p> <p>SRIL TROS 965.289</p>			
<p>INSULATED CERAMIC BEARING DRIVE END - Security operation</p> <p>Incorrect assembly can lead to engine failure with a safety risk in service</p> <p>SRIL TROS 965.289</p> <p>FAG: NU 214-E-XL-M1-P6-F1-H257A-J20AB-C4 or NU 214-E-M1-P6-F1-H257A-J20AA-C4</p> <p>SKE-NU 214-ECM/C4-VA3091</p> <p>(cross out the references that have not been fitted)</p>			
N°: ROMANIA - 0097 09/23 SN 261-136979K			
<p>S2</p> <p>Radial play after assembly (0,042 / 0,114): 0,07mm</p> <p><input checked="" type="checkbox"/> OK <input type="checkbox"/> NOK</p>		<p>S4</p> <p>LUBRIFICATION WITH MOBILITH SHC 100 before cover assembly</p> <p>Min:144g - Max:149g</p> <p>Measured quantity: <input type="checkbox"/> OK <input type="checkbox"/> NOK</p> <p>Filter 1 (Name and signature) <i>[Signature]</i></p> <p>Filter 2 (Name and signature) <i>[Signature]</i></p> <p>Quality validation: <i>[Signature]</i></p>	
<p>INSULATED CERAMIC BEARING OPPOSITE DRIVE END side - Security operation</p> <p>Incorrect assembly can lead to engine failure with a safety risk in service</p> <p>SRIL TROS 965.289</p> <p>FAG: 6214-M-P6-J20AB-H257A-C4 or 6214-M-P6-J20AA-H257-C4</p> <p>SKE-6214-M/C4-VL-0241</p> <p>(cross out the references that have not been fitted)</p>			
Serial N°: GERMANY - 0200 x116-0737 04/23 SN 0099			
<p>S1</p> <p>Radial play after assembly (0,021 / 0,067): 0,05mm</p> <p><input checked="" type="checkbox"/> OK <input type="checkbox"/> NOK</p>		<p>S3</p> <p>LUBRIFICATION WITH MOBILITH SHC 100 before cover assembly</p> <p>Min:159g Max:164g</p> <p>Measured quantity: <input type="checkbox"/> OK <input type="checkbox"/> NOK</p> <p>Filter 1 (Name and signature) <i>[Signature]</i></p> <p>Filter 2 (Name and signature) <i>[Signature]</i></p> <p>Quality validation: <i>[Signature]</i></p>	
Référence appareil: A-J2P14			
FINAL ASSEMBLY REPORT FOR THE MOTOR 6 ECA 3022 B - PRASA		TROS 916.216 2 Page 1	

ALSTOM

GIBELTA

FINAL ASSEMBLY REPORT FOR THE MOTOR 6 ECA 3022 B - PRASA

Record the value of the Insulation resistance of the bearings to TROS 915.069 (> 50 kΩ)		2,29 GΩ		<input checked="" type="checkbox"/> OK <input type="checkbox"/> NOK
OPERATOR			Quality verification	
Out of round at the end of the shaft drive end 0,05 max:	<i>0,01mm</i>	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NOK	<i>A-J2P14</i>	<input type="checkbox"/> OK <input type="checkbox"/> NOK
Out of round on toothed wheel 0,1 max:	<i>0,04mm</i>	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NOK	<i>A-J2P14</i>	<input type="checkbox"/> OK <input type="checkbox"/> NOK
sensor / toothed wheel play 0,7 (+/- 0,2):	<i>0,8mm</i>	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NOK	<i>GIBELTA</i>	<input type="checkbox"/> OK <input type="checkbox"/> NOK

Sensor reference: DTR0000512252/DSD1830.19Q14HW

☒ OK ☐ NOK 603/11006589☐ OK ☐ NOK

Prep. & Final Assembly

OPERATOR			Quality verification		
<input checked="" type="checkbox"/> F1	Torque tightening to 8 x 76 Nm:	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NOK	wrench reference (in the event of failure / absence of the motorized screwdriver) <u>NCC5087</u>	QC 1 X 61 Nm	<input type="checkbox"/> OK <input type="checkbox"/> NOK
<input checked="" type="checkbox"/> F2	Torque tightening to 8 x 76 Nm:	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NOK	wrench reference (in the event of failure / absence of the motorized screwdriver) <u>NCC5087</u>	QC 1 X 61 Nm	<input type="checkbox"/> OK <input type="checkbox"/> NOK
<input checked="" type="checkbox"/> F3	Torque tightening to 4 x 44 Nm: Fold locking plate	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NOK	wrench reference (in the event of failure / absence of the motorized screwdriver) <u>NCC5087</u>	QC 1 X 37 Nm	<input type="checkbox"/> OK <input type="checkbox"/> NOK
<input checked="" type="checkbox"/> F4	Torque tightening to 4 x 22 Nm:	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NOK	wrench reference (in the event of failure / absence of the motorized screwdriver) <u>NCC5087</u>	QC 1 X 18 Nm	<input type="checkbox"/> OK <input type="checkbox"/> NOK
<input checked="" type="checkbox"/> F5	Torque tightening to 6 x 22 Nm:	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NOK	wrench reference (in the event of failure / absence of the motorized screwdriver) <u>NCC5087</u>	QC 1 X 18 Nm	<input type="checkbox"/> OK <input type="checkbox"/> NOK

Finishing

<input checked="" type="checkbox"/> F1	Torque tightening to 4 x 22 Nm:	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NOK	wrench reference (in the event of failure / absence of the motorized screwdriver) <u>NCC5087</u>	QC 1 X 22 Nm	<input type="checkbox"/> OK <input type="checkbox"/> NOK
--	---------------------------------	---	---	--------------	--

Grease protection transport

<input checked="" type="checkbox"/> S3	18g (0/+4.5) CC	Mesured quantity: <u>18g</u>	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NOK
<input checked="" type="checkbox"/> S4	18g (0/+4.5) CC	Mesured quantity: <u>18g</u>	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NOK

Final inspection following the check-list DTR0000452909 and DTR0000452910 (in the case of 100% inspection of the production)

☒ OK ☐ NOK

Final inspection

Quality Insp Name and Signature:

Dima ADS

Comments

OBSERVATIONS

FINAL ASSEMBLY REPORT FOR THE MOTOR 6 ECA 3022 B - PRASA

TROS 916.216

2

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GIBELA RAIL TRANSPORT CONSORTIUM RF (PTY) LTD

Traction Motors Quality

2024 -02- 21

Name : DimaSignature : ADS



CERTIFICATION OF CONFORMITY

Inspection certificate according EN 10204-3.1

Product: Traction Motors 6 ECA 3022 B

Serial Number: N ° 21329

Client / Customer: ALSTOM UBUNYE (PTY) LTD

Project: PRASA

P O Number: 76228321

Status: QC PASS

Derogations / Concession / Waiver N °: N/A

Customer modification: N/A

Missing parts: N/A

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Date: 2024/02/21

Function: Final Inspection

Performed and signed off by: Name _____ Dimakatso Mohoalali

Signature _____



Gibela Rail
02 Shosholoza Avenue
M07 Traction Motor
1590

GIBELA RAIL

Compiled by M Kola

Date: 22/2/2022

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ALSTOM

FINAL ASSEMBLY REPORT FOR THE MOTOR 6 ECA 3022 B - PRASA

Référence: TROS 916.216

Révision: 2

Documents de référence: AT00000325953 - AT00000325990

Assembly before test

Date: 03/11/23

Name: XOUANI

Assembly after test

Date: 14/02/24

Name: Godfrey & Thomas



ROTOR S/N MCR02-10-092 GIB-13713		STATOR S/N	
<p>Bearing lubrication - Security operation Incorrect lubrication can lead to engine failure with a safety risk in service SRIL TROS 965.289</p>			
<p>INSULATED CERAMIC BEARING DRIVE END - Security operation Incorrect assembly can lead to engine failure with a safety risk in service SRIL TROS 965.289 FAG : NU 214-E-XL-M1-P6-F1-H257A-J20AB-C4 or NU 214-E-M1-P6-F1-H257A-J20AA-C4 SKF NU 214-ECM/C4-VA3091 (cross out the references that have not been fitted)</p>			
<p>N°: Romania - 0097 09/23 SN130 - 1369794</p>			
<p>S2 Radial play after assembly (0,042 / 0,114): 0,06mm</p> <p><input checked="" type="checkbox"/> OK <input type="checkbox"/> NOK</p>		<p>S4 LUBRICATION WITH MOBILITH SHC 100 before cover assembly</p> <p>Min:144g - Max:149g</p> <p>Mesured quantity: 149g</p> <p>Fitter 1 (Name and signature): [Signature]</p> <p>Fitter 2 (Name and signature): [Signature]</p> <p>Quality validation: Dima</p>	
<p>S1 INSULATED CERAMIC BEARING OPPOSITE DRIVE END side - Security operation Incorrect assembly can lead to engine failure with a safety risk in service SRIL TROS 965.289 FAG : 6214-M-P6-J20AB-H257A-C4 or 6214-M-P6-J20AA-H257-C4 SKF 6214-M/C4-VL 0241 (cross out the references that have not been fitted)</p>			
<p>Serial N°: GERMANY : 0200 X024-1135 01/23 SN0748</p>			
<p>S1 Radial play after assembly (0,021 / 0,067): 0,06mm</p> <p><input checked="" type="checkbox"/> OK <input type="checkbox"/> NOK</p>		<p>S3 LUBRICATION WITH MOBILITH SHC 100 before cover assembly</p> <p>Min:159g Max:164g</p> <p>Mesured quantity: 164g</p> <p>Fitter 1 (Name and signature): [Signature]</p> <p>Fitter 2 (Name and signature): [Signature]</p> <p>Quality validation: Dima</p>	
<p>Reference apparell: AMXG14</p>			
FINAL ASSEMBLY REPORT FOR THE MOTOR 6 ECA 3022 B - PRASA		TROS 916.216 2 Page 1	

ALSTOM

FINAL ASSEMBLY REPORT FOR THE MOTOR 6 ECA 3022 B - PRASA

GIBELTA

Record the value of the Insulation resistance of the bearings to TROS 915.069 (> 50 kΩ)

3,37GΩ

☒ OK

☐ NOK

OPERATOR				Quality verification			
Out of round at the end of the shaft drive end 0,05 max:	<input checked="" type="checkbox"/>	OK <input type="checkbox"/>	NOK <input type="checkbox"/>	Device serial number			
Out of round on toothed wheel 0,1 max:	<input checked="" type="checkbox"/>	OK <input type="checkbox"/>	NOK <input type="checkbox"/>	Device serial number			
sensor / toothed wheel play 0,7 (+/- 0,2):	<input checked="" type="checkbox"/>	OK <input type="checkbox"/>	NOK <input type="checkbox"/>	Device serial number			
Sensor reference: DTR0000512252/DSD1830.19Q14HW	<input checked="" type="checkbox"/>	OK <input type="checkbox"/>	NOK <input type="checkbox"/>	Device serial number			

Prep. & Final Assembly

OPERATOR				Quality verification				
F1 Torque tightening to 8 x 76 Nm:	<input checked="" type="checkbox"/>	OK <input type="checkbox"/>	NOK <input type="checkbox"/>	wrench reference (in the event of failure / absence of the motorised screwdriver)	QC 1 X 61 Nm	<input type="checkbox"/>	OK <input type="checkbox"/>	NOK <input type="checkbox"/>
F2 Torque tightening to 8 x 76 Nm:	<input checked="" type="checkbox"/>	OK <input type="checkbox"/>	NOK <input type="checkbox"/>	wrench reference (in the event of failure / absence of the motorised screwdriver)	QC 1 X 61 Nm	<input type="checkbox"/>	OK <input type="checkbox"/>	NOK <input type="checkbox"/>
F3 Torque tightening to 4 x 44 Nm:	<input checked="" type="checkbox"/>	OK <input type="checkbox"/>	NOK <input type="checkbox"/>	wrench reference (in the event of failure / absence of the motorised screwdriver)	QC 1 X 37 Nm	<input type="checkbox"/>	OK <input type="checkbox"/>	NOK <input type="checkbox"/>
F4 Torque tightening to 4 x 22 Nm:	<input checked="" type="checkbox"/>	OK <input type="checkbox"/>	NOK <input type="checkbox"/>	wrench reference (in the event of failure / absence of the motorised screwdriver)	QC 1 X 18 Nm	<input type="checkbox"/>	OK <input type="checkbox"/>	NOK <input type="checkbox"/>
F5 Torque tightening to 6 x 22 Nm:	<input checked="" type="checkbox"/>	OK <input type="checkbox"/>	NOK <input type="checkbox"/>	wrench reference (in the event of failure / absence of the motorised screwdriver)	QC 1 X 18 Nm	<input type="checkbox"/>	OK <input type="checkbox"/>	NOK <input type="checkbox"/>

Finishing

F1 Torque tightening to 4 x 22 Nm:	<input checked="" type="checkbox"/>	OK <input type="checkbox"/>	NOK <input type="checkbox"/>	wrench reference (in the event of failure / absence of the motorised screwdriver)	QC 1 X 22 Nm	<input type="checkbox"/>	OK <input type="checkbox"/>	NOK <input type="checkbox"/>
------------------------------------	-------------------------------------	-----------------------------	------------------------------	---	--------------	--------------------------	-----------------------------	------------------------------

Grease protection transport

S3 18g (0/+4.5) CC	Mesured quantity:	18g	<input checked="" type="checkbox"/>	OK <input type="checkbox"/>	NOK <input type="checkbox"/>
S4 18g (0/+4.5) CC	Mesured quantity:	18g	<input checked="" type="checkbox"/>	OK <input type="checkbox"/>	NOK <input type="checkbox"/>

Final inspection following the check-list DTR0000452909 and DTR0000452910 (In the case of 100% inspection of the production)

☒ OK ☐ NOK

Final inspection

Quality Insp Name and Signature:

Dina

Comments

OBSERVATIONS

FINAL ASSEMBLY REPORT FOR THE MOTOR 6 ECA 3022 B - PRASA

TROS 916.216

2

Page

2

GIBELA RAIL TRANSPORT CONSORTIUM RF (PTY) LTD

Traction Motors Quality

2024 -02- 19

Name : Dina

Signature : Dina

MANUFACTURER **ALSTOM** Ubunye
 Marievale Road, Vosterkroon, Nigel, 1490

CUSTOMER **Gibela**

CONTRACT

PROJECT **PRASA**

MANUFACTURER'S DELIVERY DOCUMENT

PRODUCT TYPE **MOTOR BOGIE MB1**

DTR0009706804

SERIAL NUMBER **MB1 1362**

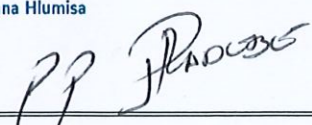
CONTENTS

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CONSTRUCTOR APPROVAL

DATE	08 March 2024
NAME	Kwababana Hlumisa
VISA	

I - Deviation / Derogation

II - Bogie configuration

B Bogie index



ALSTOM UBUNYE

PRODUCTS TRACEABILITY

Products Designation	Product Reference	Serial Number	Batch or Date Manufactured	Supplier
Motor Bogie MB1	DTR0009706804	1362		Alstom - Ubunye
Motor Bogie Frame	AR000000176080	1680		Alstom - Ubunye
Wheelset (Front)	AR0000000177020	M03093		Alstom - Ubunye
Axle with fitted gearbox	AR000000177072	K3102		NGC
Wheel (Right)	AR000000174670	107	10-23	Bonatrans
Wheel (Left)	AR0000000174670	103	10-23	Bonatrans
Wheelset (Rear)	AR000000178600	M3094		Alstom - Ubunye
Axle with fitted gearbox	AR000000177072	K3283		NGC
Wheel (Right)	AR000000174670	022	10-23	Bonatrans
Wheel (Left)	AR000000174670	026	10-23	Bonatrans
Pneumatic suspension (Right)	AR000000176127	2312105		Hutchinson
Pneumatic suspension (Left)	AR000000176127	2312165		Hutchinson
Brake unit with PB (Right rear)	AR000000174544	1641	02-24	WEBTEC
Brake unit without PB (Right front)	AR000000175185	4947	02-24	WEBTEC
Brake unit without PB (Left Front)	AR000000175185	4950	02-24	WEBTEC
Brake unit without PB (left rear)	AR000000175185	4949	02-24	WEBTEC
Motor (front)	AR000000168516	21283		GIBELA
Motor (Rear)	AR000000168516	21294		GIBELA

QC: 018
Revision: 1.0



ALSTOM UBUNYE

PRODUCTS TRACEABILITY

PRESSING REPORT

DATE 3/7/2024	RESPONSABLE VALIDATION	PRASA ALSO IN USE	PRESSING REPORT	
DATE VALIDATION			INSTRUCTION SHEET: FAMILY:	LOAD TEST: MOTOR BOGIE PROJECT:

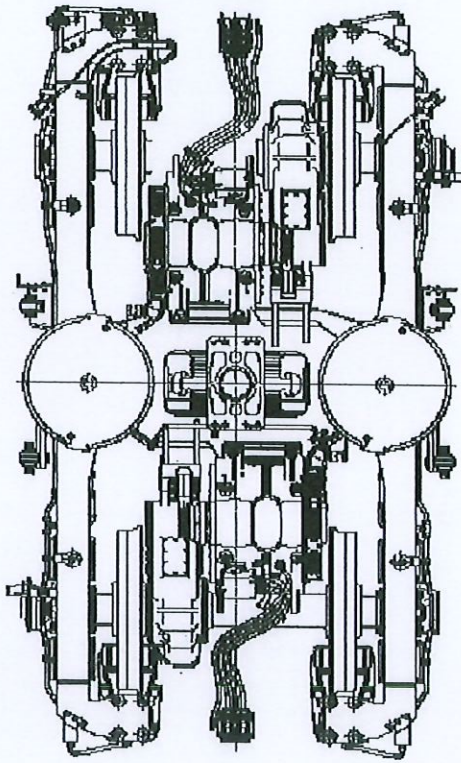
WHEEL DIAMETER [mm]	MIN MAX	THEORETICAL	MEASURED
GAP PRIMARY SUSPENSION [mm]	MIN MAX	33.00 39.00	38.56 ✓
SHIM THICK [mm]			
WEIGHT ON WHEEL [Kg]		Q4	5575

SECONDARY SUSPENSION		✓
MEASURED [mm]	SHIM THICK [mm]	THEORETICAL [mm]
586.27	+	MIN MAX
	0.00	585.00 587.50
	=	

RIGHT JACK LOAD	
7376	Kg

WHEEL DIAMETER [mm]	MIN MAX	THEORETICAL	MEASURED
GAP PRIMARY SUSPENSION [mm]	MIN MAX	33.00 39.00	38.40 ✓
SHIM THICK [mm]			
WEIGHT ON WHEEL [Kg]		Q2	5573

BOGIE SERIAL N°	MB1-1362
BOGIE TYPE	MB
BOGIE WEIGHT UNDER LOAD [Kg]	22355
COMPLETE BOGIE WEIGHT [Kg]	7264
OPERATOR	DATE
BAFANA	3/7/2024



DC-3FI-6

	THEORETICAL	MEASURED
LOAD DIFFERENCE ON FRONT AXLE [%]	MIN	0.00
	MAX	0.00
LOAD DIFFERENCE ON REAR AXLE [%]	MIN	0.00
	MAX	0.00
LOAD DIFFERENCE FRONT AXLE AND REAR AXLE [%]	MIN	0.00
	MAX	0.00
LOAD DIFFERENCE ON RAILS [%]	MIN	0.00
	MAX	0.00
LOAD DIFFERENCE ON DIAGONAL WHEELS [%]	MIN	0.00
	MAX	0.00

LEFT JACK LOAD	7377 Kg
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	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN MAX	38.51
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q1	5575

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 33.00 MAX 39.00	37.91
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q3	5632



CERTIFICATION OF CONFORMITY

Inspection certificate according EN 10204-3.1

Product: Traction Motors 6 ECA 3022 B

Serial Number: N ° 21283

Client / Customer: ALSTOM UBUNYE (PTY) LTD

Project: PRASA

P O Number: 76105449

Status: QC PASS

Derogations / Concession / Waiver N °: N/A

Customer modification: N/A

Missing parts: N/A

We hereby declare, barring exceptions, reservations or exemptions listed in this statement of conformity, that the listed supplies comply with the contract requirements and that, after completion of testing and verification, they completely satisfy all specified requirements, and applicable standards and regulations.

Date: 2024/03/01

Function: Final Inspection

Performed and signed off by: Name _____ Dimakatso Mohoalali

Signature _____



Gibela Rail
02 Shosholozwa Avenue
M07 Traction Motor
1590

GIBELA RAIL

Compiled by M Kola

Date: 22/2/2022

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FINAL ASSEMBLY REPORT FOR THE MOTOR 6 ECA 3022 B - PRASA

Référence: TROS 916.216

Révision: 2

Documents de référence: AT00000325953 - AT00000325990

Assembly before test

Date: 18/11/2023

Name: Jacques

Assembly after test

Date: 24/02/2024

Name: XOLANT & MONIAS

ROTOR S/N MCR22-10-060	STATOR S/N GEB-1312		
<p>Bearing lubrication - Security operation Incorrect lubrication can lead to engine failure with a safety risk in service SRIL TROS 965.289</p>			
<p>INSULATED CERAMIC BEARING DRIVE END - Security operation Incorrect assembly can lead to engine failure with a safety risk in service SRIL TROS 965.289</p> <p>FAG: NU 214 E-XL-M1-P6-F1-H257A-J20AB-C4 or NU 214 E-M1-P6-F1-H257A-J20AA-C4 SKF: NU 214 ECM/C4 VA3091 (cross out the references that have not been fitted)</p>			
N°: AUSTRIA: - 237W			
<p>S2 Radial play after assembly (0,042 / 0,114):</p> <p>0,08mm <input checked="" type="checkbox"/> OK <input type="checkbox"/> NOK</p>		<p>S4 LUBRIFICATION WITH MOBILITH SHC 100 before cover assembly</p> <p>Min: 144g - Max: 49g Measured quantity: <input type="text"/></p> <p>Fitter 1 (Name and signature) <input type="text"/> Fitter 2 (Name and signature) <input type="text"/></p> <p>Quality validation: <input type="text"/> Quality Insp. Name and signature: <input type="text"/></p>	
<p>INSULATED CERAMIC BEARING OPPOSITE DRIVE END side - Security operation Incorrect assembly can lead to engine failure with a safety risk in service SRIL TROS 965.289</p> <p>FAG: 6214-M-P6-J20AB-H257A-C4 or 6214-M-P6-J20AA-H257-C4 SKF 6214-M/C4-VL 0241 (cross out the references that have not been fitted)</p>			
Serial N°: AUSTRIA: - 094W			
<p>S1 Radial play after assembly (0,021 / 0,067):</p> <p>0,05mm <input checked="" type="checkbox"/> OK <input type="checkbox"/> NOK</p>		<p>S3 LUBRIFICATION WITH MOBILITH SHC 100 before cover assembly</p> <p>Min: 159g Max: 64g Measured quantity: <input type="text"/></p> <p>Fitter 1 (Name and signature) <input type="text"/> Fitter 2 (Name and signature) <input type="text"/></p> <p>Quality validation: <input type="text"/> Quality Insp. Name and signature: <input type="text"/></p>	
<p>Reference approval: <input type="text"/></p>			
FINAL ASSEMBLY REPORT FOR THE MOTOR 6 ECA 3022 B - PRASA		TROS 916.216 2 Page 1	

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FINAL ASSEMBLY REPORT FOR THE MOTOR 6 ECA 3022 B - PRASA

Record the value of the insulation resistance of the bearings to TROS 915.069 (> 50 kΩ)

203M52 ☒ OK ☐ NOK

OPERATOR			Quality verification	
Out of round at the end of the shaft drive end 0,05 max:	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NOK	AS 0214	<input type="checkbox"/> OK <input type="checkbox"/> NOK	
Out of round on toothed wheel 0,1 max: 0,05mm	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NOK	AS 0214	<input type="checkbox"/> OK <input type="checkbox"/> NOK	
sensor / toothed wheel play 0,7 (+/- 0,2): 0,07mm	<input type="checkbox"/> OK <input type="checkbox"/> NOK	AS 0214	<input type="checkbox"/> OK <input type="checkbox"/> NOK	

GIBFLOOD

Sensor reference: DTR0000512252/DSD1830.19Q14HW

☒ OK ☐ NOK

Device serial number

52243008118

☐ OK ☐ NOK

Prep. & Final Assembly

OPERATOR			Quality verification		
F1	Torque tightening to 8 x 76 Nm:	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NOK	wrench reference (in the event of failure / absence of the motorized screwdriver)	QC 1 X 61 Nm	<input type="checkbox"/> OK <input type="checkbox"/> NOK
F2	Torque tightening to 8 x 76 Nm:	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NOK	wrench reference (in the event of failure / absence of the motorized screwdriver)	QC 1 X 61 Nm	<input type="checkbox"/> OK <input type="checkbox"/> NOK
F3	Torque tightening to 4 x 44 Nm: Fold locking plate	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NOK	wrench reference (in the event of failure / absence of the motorized screwdriver)	QC 1 X 37 Nm	<input type="checkbox"/> OK <input type="checkbox"/> NOK
F4	Torque tightening to 4 x 22 Nm:	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NOK	wrench reference (in the event of failure / absence of the motorized screwdriver)	QC 1 X 18 Nm	<input type="checkbox"/> OK <input type="checkbox"/> NOK
F5	Torque tightening to 6 x 22 Nm:	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NOK	wrench reference (in the event of failure / absence of the motorized screwdriver)	QC 1 X 18 Nm	<input type="checkbox"/> OK <input type="checkbox"/> NOK

Finishing

F1	Torque tightening to 4 x 22 Nm:	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NOK	wrench reference (in the event of failure / absence of the motorized screwdriver)	QC 1 X 22 Nm	<input type="checkbox"/> OK <input type="checkbox"/> NOK
----	---------------------------------	---	---	--------------	--

Grease protection transport

S3	18g (0/+4.5) CC	Mesured quantity: 18g	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NOK
S4	18g (0/+4.5) CC	Mesured quantity: 18g	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NOK

Final inspection following the check-list DTR0000452909 and DTR0000452910 (In the case of 100% inspection of the production)

☒ OK ☐ NOK

Final Inspection

Quality Insp Name and Signature:

Dima RAS.

Comments

OBSERVATIONS

FINAL ASSEMBLY REPORT FOR THE MOTOR 6 ECA 3022 B - PRASA

TROS 916.216

2

Page

2

GIBELA RAIL TRANSPORT CONSORTIUM HF (PTY) LTD
Traction Motors Quality

2024 -02- 28

Name : Dima

Signature : RAS.

21294

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GIBELCO

FINAL ASSEMBLY REPORT FOR THE MOTOR 6 ECA 3022 B - PRASA

Référence: TROS 916.216

Révision: 2

Documents de référence: AT00000325953 - AT00000325990

Assembly before test

Date: 18/11/2023

Name: Jacques

Assembly after test

Date: 20/02/24

Name: XAVIER THOMAS

ROTOR S/N M022-10-060		STATOR S/N GEB-1312	
<p>Bearing lubrication - Security operation Incorrect lubrication can lead to engine failure with a safety risk in service SRIL TROS 965.289</p>			
<p>INSULATED CERAMIC BEARING DRIVE END - Security operation Incorrect assembly can lead to engine failure with a safety risk in service SRIL TROS 965.289 FAG: NU 214-E-XL-M1-P6-F1-H257A-J20AB-C4 or NU 214-E-M1-P6-F1-H257A-J20AA-C4 SKF: NU 214 ECM/C4 VA3091 (cross out the references that have not been fitted)</p>			
N°: AUSTRIA: - 237W			
<p>S2 Radial play after assembly (0,042 / 0,114): 0,08mm <input checked="" type="checkbox"/> OK <input type="checkbox"/> NOK</p>		<p>S4 LUBRIFICATION WITH MOBILITH SHC 100 before cover assembly Min: 144g - Max: 149g Mesured quantity: <input checked="" type="checkbox"/> OK <input type="checkbox"/> NOK Fitter 1 (Name and signature): Fitter 2 (Name and signature): Quality validation: Dima FDS</p>	
<p>INSULATED CERAMIC BEARING OPPOSITE DRIVE END side - Security operation Incorrect assembly can lead to engine failure with a safety risk in service SRIL TROS 965.289 FAG: 6214-M-P6-J20AB-H257A-C4 or 6214-M-P6-J20AA-H257-C4 SKF 6214-M/C4-VL 0241 (cross out the references that have not been fitted)</p>			
Serial N°: AUSTRIA: - 094W			
<p>S1 Radial play after assembly (0,021 / 0,067): 0,05mm <input checked="" type="checkbox"/> OK <input type="checkbox"/> NOK Reference appareil: AS 014</p>		<p>S3 LUBRIFICATION WITH MOBILITH SHC 100 before cover assembly Min: 159g - Max: 164g Mesured quantity: <input checked="" type="checkbox"/> OK <input type="checkbox"/> NOK Fitter 1 (Name and signature): Fitter 2 (Name and signature): Quality validation: Dima FDS</p>	
FINAL ASSEMBLY REPORT FOR THE MOTOR 6 ECA 3022 B - PRASA		TROS 916.216 2 Page 1	

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FINAL ASSEMBLY REPORT FOR THE MOTOR 6 ECA 3022 B - PRASA

Record the value of the Insulation resistance of the bearings to TROS 915.069 (> 50 kΩ)				203M2 <input checked="" type="checkbox"/> OK <input type="checkbox"/> NOK	
OPERATOR				Quality verification	
Out of round at the end of the shaft drive end 0,05 max:	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NOK	Device serial number: AS 014	<input type="checkbox"/> OK <input type="checkbox"/> NOK		
Out of round on toothed wheel 0,1 max: 0,05mm	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NOK	Device serial number: AS 014	<input type="checkbox"/> OK <input type="checkbox"/> NOK		
sensor / toothed wheel play 0,7 (+/- 0,2): 0,07mm	<input type="checkbox"/> OK <input type="checkbox"/> NOK	Device serial number: AS 014	<input type="checkbox"/> OK <input type="checkbox"/> NOK		

GIBFLOOR

FINAL ASSEMBLY REPORT FOR THE MOTOR 6 ECA 3022 B - PRASA

Référence: TROS 916.216

Révision: 2

Documents de référence: AT00000325953 - AT00000325990

Assembly before test

Date: 10/11/23

Name: XOLANT

Assembly after test

Date: 23/02/24

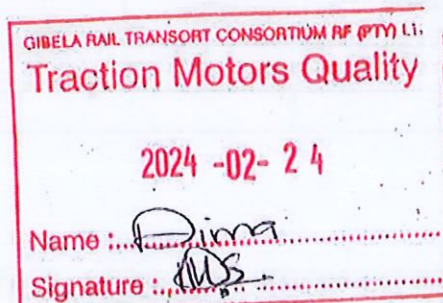
Name: XOLANT & THOMAS

ROTOR S/N MCRD-10-054		STATOR S/N GIB-1293	
<p>Bearing lubrication - Security operation Incorrect lubrication can lead to engine failure with a safety risk in service SRIL TROS 965.289</p>			
<p>INSULATED CERAMIC BEARING DRIVE END - Security operation Incorrect assembly can lead to engine failure with a safety risk in service SRIL TROS 965.289 FAG - NU 214 E-XL-M1-P6-F1-H257A-J20AB-C4 or NU 214 E-M1-P6-F1-H257A-J20AA-C4 SKF: NU 214 ECM/C4 VA3091 (cross out the references that have not been fitted)</p>			
N°: AUSTRIA : 237 W			
<p>S2 Radial play after assembly (0,042 / 0,114): 0,09mm</p> <p><input checked="" type="checkbox"/> OK <input type="checkbox"/> NOK</p>		<p>S4 LUBRIFICATION WITH MOBILITH SHC 100 before cover assembly</p> <p>Min:144g - Max:149g</p> <p>Measured quantity: 8</p> <p>Filter 1 (Name and signature) [Signature]</p> <p>Filter 2 (Name and signature) [Signature]</p> <p>Quality validation: Dima</p>	
<p>S1 INSULATED CERAMIC BEARING OPPOSITE DRIVE END side - Security operation Incorrect assembly can lead to engine failure with a safety risk in service SRIL TROS 965.289 FAG - 6214-M-P6-J20AB-H257A-C4 or 6214-M-P6-J20AA-H257-C4 SKF 6214-M/C4-VL 0241 (cross out the references that have not been fitted)</p>			
Serial N°: AUSTRIA: 094W			
<p>S1 Radial play after assembly (0,021 / 0,067): 0,03mm</p> <p><input checked="" type="checkbox"/> OK <input type="checkbox"/> NOK</p>		<p>S3 LUBRIFICATION WITH MOBILITH SHC 100 before cover assembly</p> <p>Min:159g - Max:164g</p> <p>Measured quantity: 8</p> <p>Filter 1 (Name and signature) [Signature]</p> <p>Filter 2 (Name and signature) [Signature]</p> <p>Quality validation: Dima</p>	
Référence appareil: AMX 514			
FINAL ASSEMBLY REPORT FOR THE MOTOR 6 ECA 3022 B - PRASA		TROS 916.216 2 Page 1	

FINAL ASSEMBLY REPORT FOR THE MOTOR 6 ECA 3022 B - PRASA

Record the value of the Insulation resistance of the bearings to TROS 915.069 (> 50 kΩ)		1,84 GΩ		<input checked="" type="checkbox"/> OK <input type="checkbox"/> NOK
OPERATOR			Quality verification	
Out of round at the end of the shaft drive end 0,05 max:	0,01mm	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NOK	AMX 514	<input type="checkbox"/> OK <input type="checkbox"/> NOK
Out of round on toothed wheel 0,1 max:	0,08mm	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NOK	AMX 514	<input type="checkbox"/> OK <input type="checkbox"/> NOK
sensor / toothed wheel play 0,7 (+/- 0,2):	0,85mm	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NOK	GIBELG	<input type="checkbox"/> OK <input type="checkbox"/> NOK

Sensor reference: DTR0000512252/DSD1830.19Q14HW		<input checked="" type="checkbox"/> OK <input type="checkbox"/> NOK <u>50234005557</u>		<input type="checkbox"/> OK <input type="checkbox"/> NOK	
Prep. & Final Assembly					
OPERATOR			Quality verification		
<input checked="" type="checkbox"/> F1	Torque tightening to 8 x 76 Nm:	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NOK	<small>wrench reference (in the event of failure / absence of the mototool / screwdriver)</small> <u>NCC5557</u>	QC 1 X 61 Nm	<input type="checkbox"/> OK <input type="checkbox"/> NOK
<input checked="" type="checkbox"/> F2	Torque tightening to 8 x 76 Nm:	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NOK	<u>NCC5557</u>	QC 1 X 61 Nm	<input type="checkbox"/> OK <input type="checkbox"/> NOK
<input checked="" type="checkbox"/> F3	Torque tightening to 4 x 44 Nm: Fold locking plate	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NOK	<u>NCC5557</u>	QC 1 X 37 Nm	<input type="checkbox"/> OK <input type="checkbox"/> NOK
<input checked="" type="checkbox"/> F4	Torque tightening to 4 x 22 Nm:	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NOK	<u>NCC5557</u>	QC 1 X 18 Nm	<input type="checkbox"/> OK <input type="checkbox"/> NOK
<input checked="" type="checkbox"/> F5	Torque tightening to 6 x 22 Nm:	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NOK	<u>NCC5557</u>	QC 1 X 18 Nm	<input type="checkbox"/> OK <input type="checkbox"/> NOK
Finishing					
<input checked="" type="checkbox"/> F1	Torque tightening to 4 x 22 Nm:	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NOK	<u>NCC5557</u>	QC 1 X 22 Nm	<input type="checkbox"/> OK <input type="checkbox"/> NOK
Grease protection transport					
<input checked="" type="checkbox"/> S3	18g (0/+4.5) CC	Mesured quantity: <u>18g</u>		<input checked="" type="checkbox"/> OK <input type="checkbox"/> NOK	
<input checked="" type="checkbox"/> S4	18g (0/+4.5) CC	Mesured quantity: <u>18g</u>		<input checked="" type="checkbox"/> OK <input type="checkbox"/> NOK	
Final inspection following the check-list DTR0000452909 and DTR0000452910 (in the case of 100% inspection of the production) <input checked="" type="checkbox"/> OK <input type="checkbox"/> NOK					
			Final inspection Quality Insp Name and Signature: <u>Dima</u>		Comments
OBSERVATIONS					
FINAL ASSEMBLY REPORT FOR THE MOTOR 6 ECA 3022 B - PRASA				TROS 916.216	2 Page 2



21283

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FINAL ASSEMBLY REPORT FOR THE MOTOR 6 ECA 3022 B - PRASA

Référence: TROS 916.216

Révision: 2

Documents de référence: AT00000325953 - AT00000325990

Assembly before test

Date: 10/11/23

Name: XOLANT

Assembly after test

Date: 23/08/24

Name: XOLANT & THOMAS

ROTOR S/N		STATOR S/N	
MCR02-10-054		GIB-1293	
<p>Bearing lubrication - Security operation</p> <p>Incorrect lubrication can lead to engine failure with a safety risk in service</p> <p>SRIL TROS 965.289</p>			
<p>INSULATED CERAMIC BEARING DRIVE END - Security operation</p> <p>Incorrect assembly can lead to engine failure with a safety risk in service</p> <p>SRIL TROS 965.289</p> <p>FAG: NU 214-E-XL-M1-P6-F1-H257A-J20AB-C4 or NU 214-E-M1-P6-F1-H257A-J20AA-C4</p> <p>SKF: NU 214 ECM/C4 VA3091</p> <p>(cross out the references that have not been fitted)</p>			
N°: AUSTRIA: 937 W			
<p>S2</p> <p>Radial play after assembly (0,042 / 0,114): 0,09mm</p> <p><input checked="" type="checkbox"/> OK <input type="checkbox"/> NOK</p>		<p>S4</p> <p>LUBRIFICATION WITH MOBILITH SHC 100 before cover assembly</p> <p>Min:144g - Max:149g</p> <p>Mesured quantity:</p> <p>Filter 1 (Name and signature)</p> <p>Filter 2 (Name and signature)</p> <p>Quality validation</p> <p>Quality Insp. Name and signature</p> <p>Dima</p> <p>ABE</p>	
<p>S1</p> <p>INSULATED CERAMIC BEARING OPPOSITE DRIVE END side - Security operation</p> <p>Incorrect assembly can lead to engine failure with a safety risk in service</p> <p>SRIL TROS 965.289</p> <p>FAG: 6214-M-P6-J20AB-H257A-C4 or 6214-M-P6-J20AA-H257-C4</p> <p>SKF 6214-M/C4-VL 0241</p> <p>(cross out the references that have not been fitted)</p>			
Serial N°: AUSTRIA: 094W			
<p>S1</p> <p>Radial play after assembly (0,021 / 0,067): 0,03mm</p> <p><input checked="" type="checkbox"/> OK <input type="checkbox"/> NOK</p>		<p>S3</p> <p>LUBRIFICATION WITH MOBILITH SHC 100 before cover assembly</p> <p>Min:159g Max:164g</p> <p>Mesured quantity:</p> <p>Filter 1 (Name and signature)</p> <p>Filter 2 (Name and signature)</p> <p>Quality verification</p> <p>Quality Insp. Name and signature</p> <p>Dima</p> <p>ABE</p>	
Référence appareil: AMXG19			
FINAL ASSEMBLY REPORT FOR THE MOTOR 6 ECA 3022 B - PRASA		TROS 916.216 2 Page 1	

ALSTOM

GIBELG

FINAL ASSEMBLY REPORT FOR THE MOTOR 6 ECA 3022 B - PRASA

Record the value of the Insulation resistance of the bearings to TROS 915.069 (> 50 kΩ)		1,84 GΩ		<input checked="" type="checkbox"/> OK <input type="checkbox"/> NOK
OPERATOR			Quality verification	
Out of round at the end of the shaft drive end 0,05 max:	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NOK	AMXG19	<input type="checkbox"/> OK <input type="checkbox"/> NOK	
Out of round on toothed wheel 0,1 max: 0,08mm	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NOK	AMXG19	<input type="checkbox"/> OK <input type="checkbox"/> NOK	
sensor / toothed wheel play 0,7 (+/- 0,2): 0,85mm	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NOK	GIBELG	<input type="checkbox"/> OK <input type="checkbox"/> NOK	



CERTIFICATION OF CONFORMITY

Inspection certificate according to EN 10204-3.1

Product: Traction Motors 6 ECA 3022 B

Serial Number: N ° 21294

Client / Customer: ALSTOM UBUNYE (PTY) LTD

Project: PRASA

P O Number: 76158659

Status: QC PASS

Derogations / Concession / Waiver N °: N/A

Customer modification: N/A

Missing parts: N/A

We hereby declare, barring exceptions, reservations or exemptions listed in this statement of conformity, that the listed supplies comply with the contract requirements and that, after completion of testing and verification, they completely satisfy all specified requirements, and applicable standards and regulations.

Date: 2024/03/01

Function: Final Inspection

Performed and signed off by: Name _____ Dimakatso Mohoalali

Signature _____



Gibela Rail
02 Shosholozwa Avenue
M07 Traction Motor
1590

GIBELA RAIL

Compiled by M Kola

Date: 22/2/2022

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