

Conclusion:

Correction actions will be loaded to PDT for BHP's urgent attention.



V	-; -	8								
			INS	PECTIC	N	REPORT			Page 1 of 6	
EVO Job N	lo: 68931-5		Report N	lo: IR-02		Date of Report: 01	May, 2020	Customer :	BHP Olympic Dam	
		C	USTOME	R DATA			PDT DATA			
Name:		BHF	Olympic	: Dam			Project – Assignment No.		. 68931-5	
Address:		Olyr	mpic Dam	SA 5725			Client P.O./I.C tuff:). to Omni-	4508631918	
Attn:		Mur	ray McC	Pho	ne:	XXXX XXX XXX	Requisition No):	NA	
E-Mail :		<u>adm</u>	nin@mate	rial.com			Date of Order:		20 April, 2020	
Copies to:							Inspection Contract Coordinator:		Martin Smith	
	SUF	PLIE	R/SUB-S	UPPLIER I	DATA	A .	INS	PECTION	INFORMATION	
Inspection Performed:			⊠ With	Customer		With Contractor	Date(s) of Visi	t(s):	01 May 2020	
							Date of Previo	us Visit:	N/A	
Relevant OEMs or Vendors		Rossi Gearmotors			Date of Next Scheduled Visit:		01 August 2020			
						P. O. Status:	⊠ Com	plete Incomplete		
						Project Name:				
						OD Equipment Inspection A				
Primary Con	tact:	Cornelius Castle					Materials/Items Inspected:			
Phone:				E-mail:		Rossi Gearbox (Drawing J1589-01-00)				
Sub-supplie	r:	NA	NA							
Sub-Supplie	r Job No:	NA	NA							
Location:		NA								
Primary Con	tact:	NA					Pre-Inspection Summary Atta		☐ Yes ⊠ No	
Phone:	NA			E-mail:	N/	4	Summary Rep	ort Attache	d: ☐ Yes ☒ No	
INSPECTIO	N DISPOSIT	ION:	☐ Ac	ccept 🗵	No	nconformance(s) Ident	ified 🗌 Pla	ced on Hol	d	
INSPECTIO	N SUMMAR	Y ANI	D CONCL	USION:						
Inspection summary:										
The Inspector has carried out inspection on 01 May 2020 according to 4508631918 as below:										
- Che - Che - Che - Che - Coi	Visual inspection to ensure not has damage on painted surface and base material. - Check color of surface coating in accordance with RAL specified by OEM. - Check integrity of bare metal surfaces - Check integrity of machined metal surfaces - Check data reflected on ID Plates - Completed Mag particle NDT on structural welds on transport frames For more details please refer to Item 6 – Inspection detail.									

- :		6	4.1.14	
Title	Form Number	Revision	mm/dd/yyyy	Instructions
Inspection Report Form	MI-1220-01	D	01/05/2020	SOP-1220







	Page 2 of 6			
EVO Job No: 68931-5	Report No: IR-02	Date of Report: 01 May, 2020	Customer	: BHP Olympic Dam

RECOMMENDED ACTION:										
- Advise vendors to re-machine critical metal surfaces on relevant equipment flagged in PDT.										
INSPECTION	TIME :	⊠ DAYS □ HOURS	01		TRAVEL HOURS:	08			DISTANCE: ☐ MI ⊠ KM	460
Technical Specialist:	Dean Ter	ry	Date:	05 May,	2020		Project Coordinator :	Martin Smith		
This report is made solely on the basis of the Client's instructions and/or information and materials supplied. It is not intended to be a recommendation for any particular course of action. Omni-tuff does not accept a duty of care or any other responsibility to any person other than the Client in respect of this report and only accepts liability to the Client insofar as is expressly contained in the terms and conditions governing Omni-tuff's provision of services. Omni-tuff makes no warranties or representations either express or implied with										

1.0 ATTENDEES

NAME	COMPANY REPRESENTED	TITLE
Cornelius Castle	ВНР	
Martin Smith	Omni-tuff	Inspection Coordinator
Ross Boyle	Omni-tuff	Preservation Specialist NACE Coating Inspector Level 3
Steve Sillitoe	Omni-tuff	Mechanical Inspector
Dean Terry	Omni-tuff	Technical Specialist AS2214 WTIA 17655, AU/IWS/00398

2.0 MATERIALS

2.1 GENERIC MATERIALS

TAG / EQPT NO.	DESCRIPTION
J1589-01-00	Rossi RC21 630 U01L sin / R57.2 / B6 MOUNT / Ø325xØ355 HOLLOW OUTPUT SHAFT SHRINK DISC, LABYRINTH SEALS, AIR SENTRY BREATHER, BMP, NAMEPLATE, PIPEWORK, MAG. SUMP PLUG, PT 100 TEMP PROBES, LOCATING SPIGOT, FAN COOLING

2.2 MATERIALS INSPECTED

PO ITEM NO.	TAG / SERIAL NO.	PRODUCT / MATERIAL / ITEM NAME	ORDERED QUANTITY	PRESENTED THIS VISIT	ACCEPTED THIS VISIT	QUANTITY ACCEPTED TO DATE
4508631918	J1589-01-00	Rossi Gearbox	2	2	0	0

Title	Form Number	Revision	mm/dd/yyyy	Instructions
Inspection Report Form	MI-1220-01	D	01/05/2020	SOP-1220







	Page 3 of 6			
EVO Job No: 68931-5	Report No: IR-02	Date of Report: 01 May, 2020	Customer	: BHP Olympic Dam

3.0 DOCUMENTS USED

DOCUMENT NO.	REVISION	TITLE	APPROVAL STATUS
J1589-01-00	Α	Gearbox Drawing Config A	Approved
J1589-01-01	В	Gearbox Drawing Config B	Approved
19001805 OA	01	OEM Purchase Order and Conditioning Records	Approved
201911	01	Installation Guide	Approved

4.0 SCOPE OF INSPECTION

ITP LINE NO.	ITP ACTIVITY DESCRIPTION	ITEMS	RESULTS	CLAUSE
01	Dimension & ID Plate check	Rossi Gearbox	Accepted	6.0
02	Open and check condition of bare metal	Rossi Gearbox	Accepted	6.0
03	Open and check Nm of M56 bolts	Rossi Gearbox	Accepted	6.0
04	Open and check Nm of M20 bolts	Rossi Gearbox	Accepted	6.0
05	Visual inspection	Rossi Gearbox	Accepted	6.0
06	Document review	Rossi Gearbox	Accepted	6.0

5.0 EQUIPMENT AND INSTRUMENTATION USED

EQUIPMENT / INSTRUMENT DESCRIPTION	SERIAL NO	CALIBRATION CERT. NO.	EXPIRY DATE
Misalignment Gauge	MC-XTB-63-2130	CERT-SECEC-0012	31/12/2020
Caliper	TBÐ-TCCK-01	CERT-SECEC-0034	31/12/2020
Magnetic Particle NDT Assembly	TBÐ-TCCK-04	CERT-SECEC-0035	31/12/2020
Measuring Tape	TBÐ-TCCK-02	CERT-SECEC-0016	31/12/2020
Elcometer	TBÐ-TCCK-26	CERT-SECEC-0018	31/12/2020

6.0 INSPECTION EVIDENCE

7.0 NON-CONFORMANCES

NCR #	DESCRIPTION	DATE RAISED	DATE CLOSED
01	Mild corrosion grade 02 present on centre shaft	01/05/20	Pending
02	Pitting evident on fan	01/05/20	Pending
03	Mild damage to machined flange attachments	01/05/20	Pending

Title	Form Number	Revision	mm/dd/yyyy	Instructions
Inspection Report Form	MI-1220-01	D	01/05/2020	SOP-1220







INSPECTION REPORT Page 4 of 6						
EVO Job No: 68931-5 Report No: IR-02 Date of Report: 01 May, 2020 Custome				r : BHP Olympic Dam		
04	M56 loc	se and matting requiring re	placement	01/05/20		Pending

8.0 ATTACHMENTS TO THIS REPORT

- PO reviewed.
- Dimension reports.
- MT reports.
- NDT Technician Certificate.

9.0 PHOTOGRAPHS



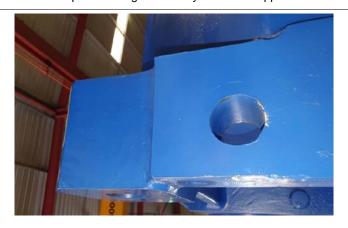
Exposed Gearbox once unwrapped



Exposed with corrosion protection applied



Exposed Flange assembly once unwrapped



Gearbox M60 bolt hole once unwrapped









5 of 6

INSPECTION REPORT Page

EVO Job No: 68931-5 Report No: IR-02 Date of Report: 01 May, 2020 Customer: BHP Olympic Dam



Gearbox while still wrapped



Additional Flanges prior to unwrapping



M56 Bolts in place prior to de-assembly



M60 hole after M56 bolts removal



M56 Bolts during inspection



M20 Bolts during inspection











END OF THIS REPORT

Title	Form Number	Revision	mm/dd/yyyy	Instructions
Inspection Report Form	MI-1220-01	D	01/05/2020	SOP-1220





Section A: Information of the returned steel transport frame

You can take most of the information from the decal on the steel transport frame:



Information of the steel transport frame returned			
Date of return:	Serial number:		
Location that returns good:	WLL:		
Product code:	Date of manufacture:		



Section B: Check list for goods inwards

If any of the following checks fail the steel transport frame need to be discarded for use as it does not comply with the original and rated design of the steel transport frame

Visual inspection		 Once the steel transport frame is received a simple visual inspection will be done by the goods inwards personnel to inspect the general appearance of the steel transport frame At this stage if any of the following check points fail, the pallet needs to be discarded for use as it does not comply with the original and rated design of the steel transport frame 		
B1	Is there any visual damage to the mesh of the steel transport frame?	No visual difference when comparing the mesh of the returned steel transport frame with original approved drawing	The mesh of the returned steel frame presents missing parts or cuts	
B2	Is there any visual damage to the base of the steel transport frame?	No visual difference when comparing the base of the returned steel transport frame with original certified drawing	The base of the returned steel frame presents some visual damage such as cuts or missing parts	
В3	Is there any visible modification/addition to the original design of the steel transport frame?	The returned steel frame presents clear modifications/ adittions that where not included in the original certified drawing	The returned steel frame presents clear modifications/additions such as cuts, extra steel.	

Section C: Check list for Workshop

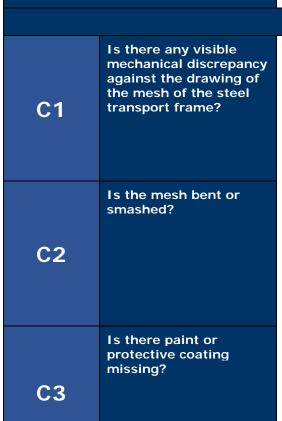


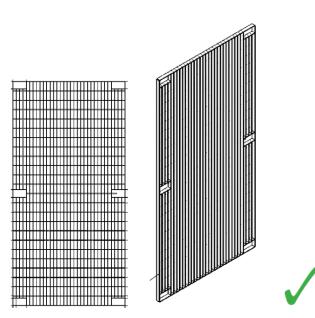
If any of the following checks fail and is not just a protective coating issue the pallet needs to be discarded for use as it does not comply with the original and rated design of the pallet

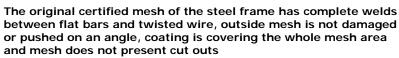
A more detailed inspection is performed at this stage

- Once the steel pallet is received from Goods inwards, a more detailed inspection of welds and structural members by a qualified person will be followed.
- At this stage if any of the following check points fail and is not just a protective coating issue, the pallet needs to be discarded for use as it does not comply with the original and rated design of the pallet

Checking the mesh











The mesh of the returned steel frame presents missing parts or cuts





The mesh of the returned steel frame presents some visual damage such as mesh bent or smashed







The mesh of the returned steel frame presents areas with missing coating or some areas presenting rust



		Checking the Base	
C4	It there any visible mechanical discrepancy against the drawing of the Base of the steel transport frame? Does the pallet lie flat on the ground?		The base of the returned steel frame lies flat on the ground
C 5	Is the base bent or smashed?		The base of the returned steel frame is bent or smashed
C6	Is the paint or protective coating missing?	The original certified base of the steel frame has complete welds between the C-channels, also there are not gaps between the C-channel and the top frame, there are no weld gaps between the C-channel and the base plate, no weld gap between the mesh and C-Channel. The base sits flat on the floor and it presents squareness.	The base of the returned steel frame presents areas with missing coating or some areas presenting rust



Checking any other visible welding issue or any other defect					
С7	Are there any visible sharp edges?		The returned steel frame presents visible sharp edges		
C8	Are there any visible gaps in the weld		The returned steel frame presents visible gaps in the weld		
C9	Is there any visible gap in the weld		The returned steel fram presents visible gaps in the weld		
C10	Are there any visible cuts in the mesh		The returned steel frame presents cuts in the mesh		
C11	Are there any weld undercuts or MiG wire remnants		The returned steel frame presents well undercuts of MiG remmants		
C12	Is there extensive corrosion that may compromise the structural integrity?	The original certified steel frame has complete welds, presents squareness, it is levelled, it has not sharp edges, it does not present cuts not weld undercuts or MiG wire remmants and it has a coating protection all over the steel frame	The returned steel fram presents visible corrosion		

Comments:

A Please be mindful that if at this stage of the check points we are facing only a protective coating issue and not a mechanical or structural issue we can put the pallet back on inventory and keep using it after solving the issue found