



Customer Document title:

PMI Test Report

Flowserve Document title: **PMI Test Report**

Flowserve Document No.: **1400944-011-3020-01**

Document Revision No.: **0**

Flowserve Order No.: **1400944**

Flowserve Serial No.: **1400944CHP011A/D**

Pump Type/Size: **MARK 3 STANDARD / 2K4X3-10HRV**

Quantity: **4**

Customer Name: **DESMET BALLESTRA NORTH AMERICA**

Customer Tag No: **DESMET TAG#: P635A.1/1, World Energy TAG#: 19-P-761A, DESMET TAG#: P635A.1/2, World Energy TAG#: 19-P-761B, DESMET TAG#: P635A.2/1, World Energy TAG#: 19-P-861A, DESMET TAG#: 635A.2/2, World Energy TAG#: 19-P-861B**

Customer PO No.: **28493**

End User: **DESMET BALLESTRA NORTH AMERICA**

Please complete and return:

Document Reviewed by:

Document Reviewed date:

- ☐ **APPROVED. NO ACTION REQUIRED**
- ☐ **APPROVED. RE-SUBMIT AS FINAL**
- ☐ **APPROVED WITH COMMENTS.** DOCUMENT WILL BE MODIFIED AND RESUBMITTED AS FINAL.
- ☐ **REJECTED.** CORRECT AND RE-SUBMIT FOR APPROVAL.
- ☐ **FOR INFORMATION.** REVIEW NOT REQUIRED
- ☐ **AS-BUILT**

- Return any documents sent for review with your comments by the stated return date. All documents not returned two weeks after requested Return date will be considered Approved, no action.
- Purchaser's comments and/or corrections within the scope of contract will be made on the first completed document submitted by Flowserve Corp. and returned.
- Corrections, alterations, additions and/or modifications outside scope of contract or made after first submittal may require an additional engineering service charge.
- Items conditionally approved or with deferred approval by purchaser must be specifically stated otherwise delivery may be affected.

Rev	Revision Description	Released	Release Date
	Final	Morris, Tamika	09-Jun-22

POSITIVE MATERIAL IDENTIFICATION (PMI) REPORT



Project No./Order : 3135517
Customer : DESMET BALLESTRA NORTH AMERICA
Customer PO/Order No. : 28493
Job No. :
Customer Tag No. :
Source : Olympus XRF S/N 501048

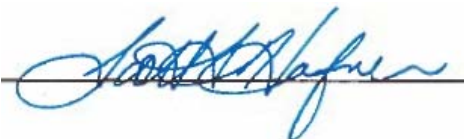
Part No.			Part Name			Material	Heat No.	Qty.	ID
SM-CY22385A-DAAA-D4-XXGXX			CASING			D4	Y2154	1	A
Cr	Ni	Mo	Cu	W	Fe	Result	Inspector	TestDate	
18.73	10.04	2.45				PASS	LM	4/1/2022	

Part No.			Part Name			Material	Heat No.	Qty.	ID
SM-CY22385A-DAAA-D4-XXGXX			CASING			D4	Z0909	1	B
Cr	Ni	Mo	Cu	W	Fe	Result	Inspector	TestDate	
19.34	10.2	2.3				PASS	LM	4/1/2022	

Part No.			Part Name			Material	Heat No.	Qty.	ID
SM-CY22385A-DAAA-D4-XXGXX			CASING			D4	Y2154	1	C
Cr	Ni	Mo	Cu	W	Fe	Result	Inspector	TestDate	
19	9.35	2.37				PASS	LM	4/1/2022	

Part No.			Part Name			Material	Heat No.	Qty.	ID
SM-CY22385A-DAAA-D4-XXGXX			CASING			D4	Y2154	1	D
Cr	Ni	Mo	Cu	W	Fe	Result	Inspector	TestDate	
19.31	9.66	2.35				PASS	LM	4/1/2022	

Comments:

Signature: 

Date: 6/9/2022

POSITIVE MATERIAL IDENTIFICATION (PMI) REPORT



Project No./Order : 3135281
 Customer : DESMET BALLESTRA NORTH AMERICA
 Customer PO/Order No. : 28493
 Job No. :
 Customer Tag No. :
 Source : Olympus XRF S/N 501048

Part No.			Part Name			Material	Heat No.	Qty.	ID
SM-DY53440A-D4-XXGXX			COVER			D4	N/A	1	A
Cr	Ni	Mo	Cu	W	Fe	Result	Inspector	TestDate	
19.39	9.58	2.63				PASS	LM	3/7/2022	

Part No.			Part Name			Material	Heat No.	Qty.	ID
SM-DY53440A-D4-XXGXX			COVER			D4	N/A	1	B
Cr	Ni	Mo	Cu	W	Fe	Result	Inspector	TestDate	
18.75	9.83	2.49				PASS	LM	3/7/2022	

Part No.			Part Name			Material	Heat No.	Qty.	ID
SM-DY53440A-D4-XXGXX			COVER			D4	N/A	1	C
Cr	Ni	Mo	Cu	W	Fe	Result	Inspector	TestDate	
18.78	10.41	2.49				PASS	LM	3/7/2022	

Part No.			Part Name			Material	Heat No.	Qty.	ID
SM-DY53440A-D4-XXGXX			COVER			D4	N/A	1	D
Cr	Ni	Mo	Cu	W	Fe	Result	Inspector	TestDate	
19.3	9.64	2.41				PASS	LM	3/7/2022	

Part No.			Part Name			Material	Heat No.	Qty.	ID
SM-DY53440A-D4-XXGXX			COVER			D4	N/A	1	E
Cr	Ni	Mo	Cu	W	Fe	Result	Inspector	TestDate	
19.25	10.04	2.56				PASS	LM	3/7/2022	

Part No.			Part Name			Material	Heat No.	Qty.	ID
SM-DY53440A-D4-XXGXX			COVER			D4	N/A	1	F
Cr	Ni	Mo	Cu	W	Fe	Result	Inspector	TestDate	
18.91	9.42	2.29				PASS	LM	3/7/2022	

Part No.			Part Name			Material	Heat No.	Qty.	ID
SM-DY53440A-D4-XXGXX			COVER			D4	N/A	1	G
Cr	Ni	Mo	Cu	W	Fe	Result	Inspector	TestDate	
19.44	9.71	2.45				PASS	LM	3/7/2022	

Part No.			Part Name			Material	Heat No.	Qty.	ID
SM-DY53440A-D4-XXGXX			COVER			D4	N/A	1	H
Cr	Ni	Mo	Cu	W	Fe	Result	Inspector	TestDate	
18.89	9.82	2.33				PASS	LM	3/7/2022	

Part No.			Part Name			Material	Heat No.	Qty.	ID
SM-DY53440A-D4-XXGXX			COVER			D4	N/A	1	I
Cr	Ni	Mo	Cu	W	Fe	Result	Inspector	TestDate	
19.01	9.55	2.44				PASS	LM	3/7/2022	

Part No.			Part Name			Material	Heat No.	Qty.	ID
SM-DY53440A-D4-XXGXX			COVER			D4	N/A	1	J
Cr	Ni	Mo	Cu	W	Fe	Result	Inspector	TestDate	
19.21	9.78	2.38				PASS	LM	3/7/2022	

Part No.			Part Name			Material	Heat No.	Qty.	ID
SM-DY53440A-D4-XXGXX			COVER			D4	N/A	1	K
Cr	Ni	Mo	Cu	W	Fe	Result	Inspector	TestDate	
18.72	9.32	2.34				PASS	LM	3/7/2022	

Part No.			Part Name			Material	Heat No.	Qty.	ID
SM-DY53440A-D4-XXGXX			COVER			D4	N/A	1	L
Cr	Ni	Mo	Cu	W	Fe	Result	Inspector	TestDate	
19.26	10.12	2.42				PASS	LM	3/7/2022	

Part No.			Part Name			Material	Heat No.	Qty.	ID
SM-DY53440A-D4-XXGXX			COVER			D4	N/A	1	M
Cr	Ni	Mo	Cu	W	Fe	Result	Inspector	TestDate	
18.87	10.14	2.38				PASS	LM	3/7/2022	

Part No.			Part Name			Material	Heat No.	Qty.	ID
SM-DY53440A-D4-XXGXX			COVER			D4	N/A	1	N
Cr	Ni	Mo	Cu	W	Fe	Result	Inspector	TestDate	
18.88	10.01	2.48				PASS	LM	3/7/2022	

Part No.			Part Name			Material	Heat No.	Qty.	ID
SM-DY53440A-D4-XXGXX			COVER			D4	N/A	1	O
Cr	Ni	Mo	Cu	W	Fe	Result	Inspector	TestDate	
19.19	9.77	2.28				PASS	LM	3/7/2022	

Part No.			Part Name			Material	Heat No.	Qty.	ID
SM-DY53440A-D4-XXGXX			COVER			D4	N/A	1	P
Cr	Ni	Mo	Cu	W	Fe	Result	Inspector	TestDate	
18.96	9.9	2.33				PASS	LM	3/7/2022	

Part No.			Part Name			Material	Heat No.	Qty.	ID
SM-DY53440A-D4-XXGXX			COVER			D4	N/A	1	Q
Cr	Ni	Mo	Cu	W	Fe	Result	Inspector	TestDate	
19.24	9.71	2.43				PASS	LM	3/7/2022	

Part No.			Part Name			Material	Heat No.	Qty.	ID
SM-DY53440A-D4-XXGXX			COVER			D4	N/A	1	R
Cr	Ni	Mo	Cu	W	Fe	Result	Inspector	TestDate	
18.98	9.51	2.45				PASS	LM	3/7/2022	

Part No.			Part Name			Material	Heat No.	Qty.	ID
SM-DY53440A-D4-XXGXX			COVER			D4	N/A	1	S
Cr	Ni	Mo	Cu	W	Fe	Result	Inspector	TestDate	
19.06	9.63	2.47				PASS	LM	3/7/2022	

Part No.			Part Name			Material	Heat No.	Qty.	ID
SM-DY53440A-D4-XXGXX			COVER			D4	N/A	1	T
Cr	Ni	Mo	Cu	W	Fe	Result	Inspector	TestDate	
19.21	9.59	2.29				PASS	LM	3/7/2022	

Part No.			Part Name			Material	Heat No.	Qty.	ID
SM-DY53440A-D4-XXGXX			COVER			D4	N/A	1	U
Cr	Ni	Mo	Cu	W	Fe	Result	Inspector	TestDate	
18.8	9.96	2.38				PASS	LM	3/7/2022	

Part No.			Part Name			Material	Heat No.	Qty.	ID
SM-DY53440A-D4-XXGXX			COVER			D4	N/A	1	V
Cr	Ni	Mo	Cu	W	Fe	Result	Inspector	TestDate	
18.67	9.62	2.51				PASS	LM	3/7/2022	

Part No.			Part Name			Material	Heat No.	Qty.	ID
SM-DY53440A-D4-XXGXX			COVER			D4	N/A	1	W
Cr	Ni	Mo	Cu	W	Fe	Result	Inspector	TestDate	
19.24	9.52	2.35				PASS	LM	3/7/2022	

Part No.			Part Name			Material	Heat No.	Qty.	ID
SM-DY53440A-D4-XXGXX			COVER			D4	N/A	1	X
Cr	Ni	Mo	Cu	W	Fe	Result	Inspector	TestDate	
19.19	10.01	2.26				PASS	LM	3/7/2022	

Part No.			Part Name			Material	Heat No.	Qty.	ID
SM-DY53440A-D4-XXGXX			COVER			D4	N/A	1	Y
Cr	Ni	Mo	Cu	W	Fe	Result	Inspector	TestDate	
18.35	10.37	2.42				PASS	LM	3/7/2022	

Part No.			Part Name			Material	Heat No.	Qty.	ID
SM-DY53440A-D4-XXGXX			COVER			D4	N/A	1	Z
Cr	Ni	Mo	Cu	W	Fe	Result	Inspector	TestDate	
18.69	9.61	2.43				PASS	LM	3/7/2022	

Part No.			Part Name			Material	Heat No.	Qty.	ID
SM-DY53440A-D4-XXGXX			COVER			D4	N/A	1	AA
Cr	Ni	Mo	Cu	W	Fe	Result	Inspector	TestDate	
18.98	9.52	2.4				PASS	LM	3/7/2022	

Part No.			Part Name			Material	Heat No.	Qty.	ID
SM-DY53440A-D4-XXGXX			COVER			D4	N/A	1	AB
Cr	Ni	Mo	Cu	W	Fe	Result	Inspector	TestDate	
19.39	9.6	2.38				PASS	LM	3/7/2022	

Comments:

Signature: 

Date: 6/9/2022

POSITIVE MATERIAL IDENTIFICATION (PMI) REPORT



Project No./Order : 3135526
Customer : DESMET BALLESTRA NORTH AMERICA
Customer PO/Order No. : 28493
Job No. :
Customer Tag No. :
Source : Olympus XRF S/N 501048

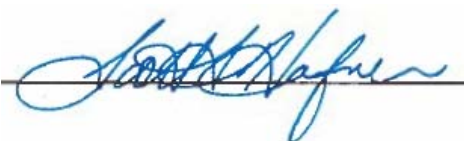
Part No.				Part Name			Material	Heat No.	Qty.	ID
SM-MY36877A100-CD4M-XXGXX				IMPELLER			CD4MCu	N/A	1	A
Cr	Ni	Mo	Cu	W	Fe	Result	Inspector	TestDate		
25.38	5.64	2.21	2.9			PASS	NL	1/20/2022		

Part No.				Part Name			Material	Heat No.	Qty.	ID
SM-MY36877A100-CD4M-XXGXX				IMPELLER			CD4MCu	N/A	1	B
Cr	Ni	Mo	Cu	W	Fe	Result	Inspector	TestDate		
25.98	4.7	2.44	3.19			PASS	NL	1/20/2022		

Part No.				Part Name			Material	Heat No.	Qty.	ID
SM-MY36877A100-CD4M-XXGXX				IMPELLER			CD4MCu	N/A	1	C
Cr	Ni	Mo	Cu	W	Fe	Result	Inspector	TestDate		
24.73	5.49	2	3.15			PASS	NL	1/20/2022		

Part No.				Part Name			Material	Heat No.	Qty.	ID
SM-MY36877A100-CD4M-XXGXX				IMPELLER			CD4MCu	N/A	1	D
Cr	Ni	Mo	Cu	W	Fe	Result	Inspector	TestDate		
25.38	5.2	2.07	2.91			PASS	NL	1/20/2022		

Comments:

Signature: 

Date: 6/9/2022

POSITIVE MATERIAL IDENTIFICATION (PMI) REPORT



Project No./Order : 3121299
 Customer : DESMET BALLESTRA NORTH AMERICA
 Customer PO/Order No. : 28493
 Job No. :
 Customer Tag No. :
 Source : Olympus XRF S/N 501048

Part No.				Part Name			Material	Heat No.	Qty.	ID
SM-CY21361AB-316-XXGXX				SHAFT			316SS	N/A	1	A
Cr	Ni	Mo	Cu	W	Fe	Result	Inspector	TestDate		
15.66	11.19	2.16				PASS	NL	12/22/2021		

Part No.				Part Name			Material	Heat No.	Qty.	ID
SM-CY21361AB-316-XXGXX				SHAFT			316SS	N/A	1	B
Cr	Ni	Mo	Cu	W	Fe	Result	Inspector	TestDate		
16.43	10.01	1.96				PASS	NL	12/22/2021		

Part No.				Part Name			Material	Heat No.	Qty.	ID
SM-CY21361AB-316-XXGXX				SHAFT			316SS	N/A	1	C
Cr	Ni	Mo	Cu	W	Fe	Result	Inspector	TestDate		
17.61	10.53	2.17				PASS	NL	12/22/2021		

Part No.				Part Name			Material	Heat No.	Qty.	ID
SM-CY21361AB-316-XXGXX				SHAFT			316SS	N/A	1	D
Cr	Ni	Mo	Cu	W	Fe	Result	Inspector	TestDate		
17.45	10.35	2.04				PASS	NL	12/22/2021		

Part No.				Part Name			Material	Heat No.	Qty.	ID
SM-CY21361AB-316-XXGXX				SHAFT			316SS	N/A	1	E
Cr	Ni	Mo	Cu	W	Fe	Result	Inspector	TestDate		
16.53	9.88	2.09				PASS	NL	12/22/2021		

Part No.				Part Name			Material	Heat No.	Qty.	ID
SM-CY21361AB-316-XXGXX				SHAFT			316SS	N/A	1	F
Cr	Ni	Mo	Cu	W	Fe	Result	Inspector	TestDate		
16.93	9.71	1.89				PASS	NL	12/22/2021		

Part No.				Part Name			Material	Heat No.	Qty.	ID
SM-CY21361AB-316-XXGXX				SHAFT			316SS	N/A	1	G
Cr	Ni	Mo	Cu	W	Fe	Result	Inspector	TestDate		
16.86	9.98	1.94				PASS	NL	12/22/2021		

Part No.			Part Name			Material	Heat No.	Qty.	ID
SM-CY21361AB-316-XXGXX			SHAFT			316SS	N/A	1	H
Cr	Ni	Mo	Cu	W	Fe	Result	Inspector	TestDate	
17	10.5	2.09				PASS	NL	12/22/2021	

Part No.			Part Name			Material	Heat No.	Qty.	ID
SM-CY21361AB-316-XXGXX			SHAFT			316SS	N/A	1	I
Cr	Ni	Mo	Cu	W	Fe	Result	Inspector	TestDate	
15.59	10.35	1.96				PASS	NL	12/22/2021	

Part No.			Part Name			Material	Heat No.	Qty.	ID
SM-CY21361AB-316-XXGXX			SHAFT			316SS	N/A	1	J
Cr	Ni	Mo	Cu	W	Fe	Result	Inspector	TestDate	
17.43	9.62	2.19				PASS	NL	12/22/2021	

Part No.			Part Name			Material	Heat No.	Qty.	ID
SM-CY21361AB-316-XXGXX			SHAFT			316SS	N/A	1	K
Cr	Ni	Mo	Cu	W	Fe	Result	Inspector	TestDate	
16.27	10.71	2.04				PASS	NL	12/22/2021	

Part No.			Part Name			Material	Heat No.	Qty.	ID
SM-CY21361AB-316-XXGXX			SHAFT			316SS	N/A	1	L
Cr	Ni	Mo	Cu	W	Fe	Result	Inspector	TestDate	
17.07	10.35	1.93				PASS	NL	12/22/2021	

Part No.			Part Name			Material	Heat No.	Qty.	ID
SM-CY21361AB-316-XXGXX			SHAFT			316SS	N/A	1	M
Cr	Ni	Mo	Cu	W	Fe	Result	Inspector	TestDate	
15.93	10.46	2.03				PASS	NL	12/22/2021	

Part No.			Part Name			Material	Heat No.	Qty.	ID
SM-CY21361AB-316-XXGXX			SHAFT			316SS	N/A	1	N
Cr	Ni	Mo	Cu	W	Fe	Result	Inspector	TestDate	
15.4	9.97	2.49				PASS	NL	12/22/2021	

Part No.			Part Name			Material	Heat No.	Qty.	ID
SM-CY21361AB-316-XXGXX			SHAFT			316SS	N/A	1	O
Cr	Ni	Mo	Cu	W	Fe	Result	Inspector	TestDate	
17.05	9.3	2.24				PASS	NL	12/22/2021	

Part No.			Part Name			Material	Heat No.	Qty.	ID
SM-CY21361AB-316-XXGXX			SHAFT			316SS	N/A	1	P
Cr	Ni	Mo	Cu	W	Fe	Result	Inspector	TestDate	
18.1	9.01	2.33				PASS	NL	12/22/2021	

Part No.				Part Name			Material	Heat No.	Qty.	ID
→ SM-CY21361AB-316-XXGXX				SHAFT			316SS	N/A	1	Q
Cr	Ni	Mo	Cu	W	Fe	Result	Inspector	TestDate		
16.25	10.69	2.05				PASS	NL	12/22/2021		

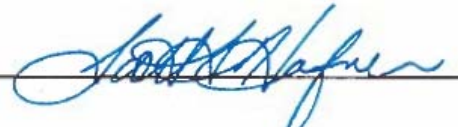
Part No.				Part Name			Material	Heat No.	Qty.	ID
→ SM-CY21361AB-316-XXGXX				SHAFT			316SS	N/A	1	R
Cr	Ni	Mo	Cu	W	Fe	Result	Inspector	TestDate		
16.82	10.57	2.07				PASS	NL	12/22/2021		

Part No.				Part Name			Material	Heat No.	Qty.	ID
SM-CY21361AB-316-XXGXX				SHAFT			316SS	N/A	1	R
Cr	Ni	Mo	Cu	W	Fe	Result	Inspector	TestDate		
15.77	12.18	2.01				PASS	NL	12/22/2021		

Part No.				Part Name			Material	Heat No.	Qty.	ID
SM-CY21361AB-316-XXGXX				SHAFT			316SS	N/A	1	S
Cr	Ni	Mo	Cu	W	Fe	Result	Inspector	TestDate		
16.92	10.75	2.05				PASS	NL	12/22/2021		

Part No.				Part Name			Material	Heat No.	Qty.	ID
SM-CY21361AB-316-XXGXX				SHAFT			316SS	N/A	1	T
Cr	Ni	Mo	Cu	W	Fe	Result	Inspector	TestDate		
16.32	11	2.3				PASS	NL	12/22/2021		

Comments:

Signature: 

Date: 6/9/2022