

**Document Title****Axial Piston Unit-Closed Loop Test Report**

Effective Date:

2022/10/24

Review Date:

2022/10/24

Revision

8

Document Number

PH-REP-005

Job No	SD00035904	Order No	
Customer Name	ANTSHAZ GROUP	Material Tag Number	
Unit Description	MPT044 PUMP(REAR)		
Material Number			

TEST PROCEDURE	Check Complete
Ensure unit casing is pre-filled before start-up.	✓
Start and run unit for <u>5</u> minutes without load.	✓
Apply load to the unit and run continuously until hydraulic fluid reservoir temperature exceeds 40°C.	✓
Gradually load unit and compare actual values with manufacturer's specifications.	✓
Performed test in designated rotation.	CCW
Shaft description.	

TEST REPORT				
Parameters	Manufacturer /Customer Specification		Actual	
Test Speed – Prime mover (r/min)	1500	RPM	1500	RPM
Charge Pressure in neutral	800	KPA	800	KPA
Charge Pressure in stroke - minimum	800	KPA	800	KPA
Charge Pressure @ high pressure	800	KPA	800	KPA
Servo pressure in stroke – forward	800	KPA	800	KPA
Servo pressure in stroke - reverse	800	KPA	800	KPA
High Pressure – A Port	34	MPA	26	MPA
High Pressure – B Port	34	MPA	26	MPA
Case drain in neutral (ℓ/min)	7,3	L/MIN	24,3	L/MIN
Case drain – pump in stroke (ℓ/min)	7,3	L/MIN	24,3	L/MIN
Case drain – motor in stroke (ℓ/min)		L/MIN		L/MIN
Speed (r/min) max - forward	412,0	RPM	390,4	RPM
Speed (r/min) max - reverse	412,0	RPM	391,1	RPM
Pressure over-ride				
Oil Temperature (°C)	41	° C	41	° C

Approved	✓
Rejected	

Comments: \_\_\_\_\_

Assembled by	LANGTON	Date	07/02/2025
Tested by	LANGTON	Date	07/02/2025
Checked by	SITHEMBISO	Date	07/02/2025

Job No	SD00035904	Order No	
Customer Name	ANTSHAZ GROUP	Material Tag Number	
Unit Description	MPT044 FRONT PUMP		
Material Number			

TEST PROCEDURE	Check Complete
Ensure unit casing is pre-filled before start-up.	✓
Start and run unit for <u>5</u> minutes without load.	✓
Apply load to the unit and run continuously until hydraulic fluid reservoir temperature exceeds 40°C.	✓
Gradually load unit and compare actual values with manufacturer's specifications.	✓
Performed test in designated rotation.	CW
Shaft description.	

TEST REPORT				
Parameters	Manufacturer /Customer Specification		Actual	
Test Speed – Prime mover (r/min)	1500	RPM	1500	RPM
Charge Pressure in neutral	800	KPA	800	KPA
Charge Pressure in stroke - minimum	800	KPA	800	KPA
Charge Pressure @ high pressure	800	KPA	800	KPA
Servo pressure in stroke – forward	800	KPA	800	KPA
Servo pressure in stroke - reverse	800	KPA	800	KPA
High Pressure – A Port	34	MPA	26	MPA
High Pressure – B Port	34	MPA	26	MPA
Case drain in neutral (ℓ/min)	7,3	L/MIN	23,9	L/MIN
Case drain – pump in stroke (ℓ/min)	7,3	L/MIN	23,9	L/MIN
Case drain – motor in stroke (ℓ/min)		L/MIN		L/MIN
Speed (r/min) max - forward	412,0	RPM	389,4	RPM
Speed (r/min) max - reverse	412,0	RPM	388,7	RPM
Pressure over-ride				
Oil Temperature (°C)	41	° C	41	° C

Approved	✓
Rejected	

Comments: \_\_\_\_\_

Assembled by	LANGTON	Date	07/02/2025
Tested by	LANGTON	Date	07/02/2025
Checked by	SITHEMBISO	Date	07/02/2025