



Customer

Simson Maxwell

Test facility

GCL Diesel Injection Service
15842-112 Ave NW
T5M 2W1 Edmonton

Customer number

Job number 488411

Telephone

780-453-6786

Fax

Remark

Test user IVAN 168

Type number	Type designation	Rotat. sense.	Compensation	Supply
0445020007	02 CR/CP3S3/L110/30-789			12V
Manufacturer	Component	Control point	Temperature	
Bosch	CP3		40 °C	
High-press. pipe	Adapter lead	Revision date	Test-unit no.	
		20.01.2006		

Complaint Fuel leaks

Problem Found no failures only normal wear on all seals and o-rings

Remark Pump passed all tests and found no leaks

#	1	Clean run						①	Flow meas.						
			°C		°C		°C		kPa		kPa		s		
n	/min		40.0		40.0		45.0		---		10.0		12		
	500		1.0		30.0		1.0		---		18		---		
	= 500		= 39.9		= 40.0		= ---		= ---				= 12		
ΣQ	l/h	ΔQ	l/h		l/h		MPa		A		Hz				
	---		---		---		---		0.40		180				
	= 11.0		= 3.2		= 47.2		= 0.3		= 0.400						
#	2	Warm up						①	Flow meas.					°C	
n	/min		40.0		40.0		45.0		kPa		kPa		s		
	2000		1.0		1.0		1.0		---		10.0		---		
	= 2000		= 39.7		= 39.9		= ---		= ---		18		= 0		
ΣQ	l/h	ΔQ	l/h		l/h		MPa		A		Hz				
	---		---		---		25.00		0.40		180				
	= 134.4		= 2.0		= 49.6		= 13.5		= 0.399						



Type number 0445020007	Type designation 02 CR/CP3S3/L110/30-789	Rotat. sense. 	Compensation 	Supply 12V
Manufacturer Bosch	Component CP3	Type ZME	Control point 	Temperature 40 °C
High-press. pipe	Adapter lead	Revision date 20.01.2006	Test-unit no.	

#	3	zme takt. 1						Flow meas.						
n	/min		°C		°C		°C		kPa		p	kPa		s
→ ←	2500	→ ←	40.0	→ ←	40.0	→ ←	45.0	→ ←	---	→ ←	10.0	→ ←	2	
	50	↓↑	1.0	↓↑	2.0	↓↑	1.0	↓↑	---	↓↑	18		---	
=	2500	=	39.4	=	39.8	=	---	=	---	=	---	=	2	
ΣQ	l/h	ΔQ	l/h		l/h		MPa		A		Hz			
→ ←	---	→ ←	---	→ ←	---	→ ←	---	→ ←	0.40	→ ←	50			
↓↑	---	↓↑	---	↓↑	---	↓↑	---	↓↑	---	↓↑	---			
=	164.7	=	1.4	=	48.3	=	9.4	=	0.399					
#	4	zme takt. 2						Flow meas.						
n	/min		°C		°C		°C		kPa		p	kPa		s
→ ←	2500	→ ←	40.0	→ ←	40.0	→ ←	45.0	→ ←	---	→ ←	10.0	→ ←	2	
	50	↓↑	1.0	↓↑	2.0	↓↑	1.0	↓↑	---	↓↑	18		---	
=	2499	=	39.2	=	39.7	=	---	=	---	=	---	=	2	
ΣQ	l/h	ΔQ	l/h		l/h		MPa		A		Hz			
→ ←	---	→ ←	---	→ ←	---	→ ←	---	→ ←	0.70	→ ←	50			
↓↑	---	↓↑	---	↓↑	---	↓↑	---	↓↑	---	↓↑	---			
=	164.5	=	1.4	=	47.4	=	9.5	=	0.703					
#	5	zme takt. 3						Flow meas.						
n	/min		°C		°C		°C		kPa		p	kPa		s
→ ←	2500	→ ←	40.0	→ ←	40.0	→ ←	45.0	→ ←	---	→ ←	10.0	→ ←	2	
	50	↓↑	1.0	↓↑	2.0	↓↑	1.0	↓↑	---	↓↑	18		---	
=	2499	=	39.0	=	39.7	=	---	=	---	=	---	=	2	
ΣQ	l/h	ΔQ	l/h		l/h		MPa		A		Hz			
→ ←	---	→ ←	---	→ ←	---	→ ←	---	→ ←	0.90	→ ←	50			
↓↑	---	↓↑	---	↓↑	---	↓↑	---	↓↑	---	↓↑	---			
=	162.2	=	1.7	=	47.0	=	9.1	=	0.901					
#	6	zme takt. 4						Flow meas.						



Type number 0445020007	Type designation 02 CR/CP3S3/L110/30-789	Rotat. sense. 	Compensation 	Supply 12V
Manufacturer Bosch	Component CP3	Type ZME	Control point 	Temperature 40 °C
High-press. pipe	Adapter lead	Revision date 20.01.2006	Test-unit no.	

n /min		°C		°C		°C		kPa	p kPa		s
→ ← 2500	→ ← 40.0	→ ← 40.0	→ ← 40.0	→ ← 45.0	→ ← ---	→ ← ---	→ ← ---	→ ← ---	→ ← 10.0	⌚	3
50	↓↑ 1.0	↓↑ 2.0	↓↑ 1.0	↓↑ ---	↓↑ ---	↓↑ ---	↓↑ ---	↓↑ ---		⌚	---
= 2499	= 38.7	= 39.6	= ---	= ---	= ---	= ---	= ---	= ---	= 18	⌚▶▶	3

ΣQ l/h	ΔQ l/h		l/h	p → MPa		A		Hz
→ ← ---	→ ← ---	→ ← ---	→ ← ---	→ ← ---	→ ← 1.50	→ ← 1.50	→ ← 50	→ ← 50
↓↑ ---	↓↑ ---	↓↑ ---	↓↑ ---	↓↑ ---	↓↑ ---	↓↑ ---	↓↑ ---	↓↑ ---
= 123.5	= 11.4	= 43.5	= 0.6	= 1.502	= 1.502	= 1.502	= 50	= 50

7 zme takt. 5 Flow meas.

n /min		°C		°C		°C		kPa	p kPa		s
→ ← 2500	→ ← 40.0	→ ← 40.0	→ ← 40.0	→ ← 45.0	→ ← ---	→ ← ---	→ ← ---	→ ← ---	→ ← 10.0	⌚	2
50	↓↑ 1.0	↓↑ 2.0	↓↑ 1.0	↓↑ ---	↓↑ ---	↓↑ ---	↓↑ ---	↓↑ ---		⌚▶▶	---
= 2500	= 38.7	= 39.5	= ---	= ---	= ---	= ---	= ---	= ---	= 18	⌚▶▶	2

ΣQ l/h	ΔQ l/h		l/h	p → MPa		A		Hz
→ ← ---	→ ← ---	→ ← ---	→ ← ---	→ ← ---	→ ← 0.40	→ ← 0.40	→ ← 50	→ ← 50
↓↑ ---	↓↑ ---	↓↑ ---	↓↑ ---	↓↑ ---	↓↑ ---	↓↑ ---	↓↑ ---	↓↑ ---
= 142.7	= 11.4	= 47.6	= 10.9	= 0.401	= 0.401	= 0.401	= 50	= 50

8 zme takt. 6 Flow meas.

n /min		°C		°C		°C		kPa	p kPa		s
→ ← 2500	→ ← 40.0	→ ← 40.0	→ ← 40.0	→ ← 45.0	→ ← ---	→ ← ---	→ ← ---	→ ← ---	→ ← 10.0	⌚	2
50	↓↑ 1.0	↓↑ 2.0	↓↑ 1.0	↓↑ ---	↓↑ ---	↓↑ ---	↓↑ ---	↓↑ ---		⌚▶▶	---
= 2500	= 38.8	= 39.5	= ---	= ---	= ---	= ---	= ---	= ---	= 18	⌚▶▶	2

ΣQ l/h	ΔQ l/h		l/h	p → MPa		A		Hz
→ ← ---	→ ← ---	→ ← ---	→ ← ---	→ ← ---	→ ← 0.70	→ ← 0.70	→ ← 50	→ ← 50
↓↑ ---	↓↑ ---	↓↑ ---	↓↑ ---	↓↑ ---	↓↑ ---	↓↑ ---	↓↑ ---	↓↑ ---
= 142.7	= 11.4	= 47.2	= 11.0	= 0.701	= 0.701	= 0.701	= 50	= 50

9 zme takt.7 Flow meas.

n /min		°C		°C		°C		kPa	p kPa		s
→ ← 2500	→ ← 40.0	→ ← 40.0	→ ← 40.0	→ ← 45.0	→ ← ---	→ ← ---	→ ← ---	→ ← ---	→ ← 10.0	⌚	2
50	↓↑ 1.0	↓↑ 2.0	↓↑ 1.0	↓↑ ---	↓↑ ---	↓↑ ---	↓↑ ---	↓↑ ---		⌚▶▶	---
= 2500	= 38.8	= 39.5	= ---	= ---	= ---	= ---	= ---	= ---	= 18	⌚▶▶	---

Type number 0445020007	Type designation 02 CR/CP3S3/L110/30-789	Rotat. sense. 	Compensation 	Supply 12V
Manufacturer Bosch	Component CP3	Control point 	Temperature 40 °C	
High-press. pipe	Adapter lead	Revision date 20.01.2006	Test-unit no.	

= 2500	= 38.6	= 39.4	= ---	= ---	= 2			
ΣQ →← ↓↑ =	l/h →← →← =	ΔQ l/h →← =	 l/h →← =	p →← ↓↑ =	MPa →← →← =	ZME A =	ZME Hz =	
	137.5	11.1	47.2	10.3	0.900			

# 10	zme takt.8				Flow meas.			
n →← =	/min →← →← =	 °C →← =	 °C →← =	 °C →← =	\diamond kPa →← ↓↑ =	p kPa →← ↓↑ =	kPa →← ↓↑ =	s →← →← =
	2500	40.0	40.0	45.0	---	10.0	18	3
	50	1.0	2.0	1.0	---	---	---	---
	2500	38.7	39.4	---	---	---	---	3

ΣQ →← ↓↑ =	l/h →← →← =	ΔQ l/h →← =	 l/h →← =	p →← ↓↑ =	MPa →← →← =	ZME A =	ZME Hz =	
	121.8	11.1	41.8	0.7	1.498			

# 11	zme takt.9				Flow meas.			
n →← =	/min →← →← =	 °C →← =	 °C →← =	 °C →← =	\diamond kPa →← ↓↑ =	p kPa →← ↓↑ =	kPa →← ↓↑ =	s →← →← =
	2500	40.0	40.0	45.0	---	10.0	18	2
	50	1.0	2.0	1.0	---	---	---	---
	2499	38.8	39.3	---	---	---	---	2

ΣQ →← ↓↑ =	l/h →← →← =	ΔQ l/h →← =	 l/h →← =	p →← ↓↑ =	MPa →← →← =	ZME A =	ZME Hz =	
	121.7	11.1	47.2	11.2	0.401			

# 12	zme takt.10				Flow meas.			
n →← =	/min →← →← =	 °C →← =	 °C →← =	 °C →← =	\diamond kPa →← ↓↑ =	p kPa →← ↓↑ =	kPa →← ↓↑ =	s →← →← =
	2500	40.0	40.0	45.0	---	10.0	18	2
	50	1.0	2.0	1.0	---	---	---	---
	2499	38.8	39.2	---	---	---	---	2

ΣQ →← ↓↑ =	l/h →← →← =	ΔQ l/h →← =	 l/h →← =	p →← ↓↑ =	MPa →← →← =	ZME A =	ZME Hz =	
	---	---	---	---	---	0.70	50	



Type number 0445020007	Type designation 02 CR/CP3S3/L110/30-789	Rotat. sense. 	Compensation 	Supply 12V
Manufacturer Bosch	Component CP3	Type ZME	Control point 	Temperature 40 °C
High-press. pipe	Adapter lead	Revision date 20.01.2006	Test-unit no.	

↓↑ --- ↓↑ --- ↓↑ ---
= 121.6 = 11.1 = 47.4 = 11.3 = 0.699

13 zme takt.11 Flow meas.

n /min		°C		°C		°C		kPa	p	kPa		s
→ ← 2500	→ ←	40.0	→ ← 40.0	→ ← 40.0	→ ← 45.0	→ ←	→ ←	---		10.0		2
50	↓↑	1.0	↓↑ 2.0	↓↑ 1.0	↓↑	↓↑	↓↑	---		18		---
= 2500	=	38.7	= 39.2	=	=	=	=	---	=		=	2

ΣQ l/h	ΔQ l/h		l/h		MPa	ZME	A	ZME	Hz
→ ←	→ ←	→ ←	→ ←	→ ←	→ ←	→ ←	0.90	→ ←	50
↓↑	↓↑	↓↑	↓↑	↓↑	↓↑	↓↑	---	↓↑	---
= 120.4	= 11.1	= 46.7	= 10.5	= 0.903					

14 zme takt.12 Flow meas.

n /min		°C		°C		°C		kPa	p	kPa		s
→ ← 2500	→ ←	40.0	→ ← 40.0	→ ← 40.0	→ ← 45.0	→ ←	→ ←	---		10.0		3
50	↓↑	1.0	↓↑ 2.0	↓↑ 1.0	↓↑	↓↑	↓↑	---		18		---
= 2500	=	38.6	= 39.2	=	=	=	=	---	=		=	3

ΣQ l/h	ΔQ l/h		l/h		MPa	ZME	A	ZME	Hz
→ ←	→ ←	→ ←	→ ←	→ ←	→ ←	→ ←	1.50	→ ←	50
↓↑	↓↑	↓↑	↓↑	↓↑	↓↑	↓↑	---	↓↑	---
= 121.0	= 10.7	= 42.5	= 0.8	= 1.497					

15 kenn .2 Flow meas.

n /min		°C		°C		°C		kPa	p	kPa		s
→ ← 3500	→ ←	40.0	→ ← 40.0	→ ← 40.0	→ ← 45.0	→ ←	→ ←	---		10.0		---
100	↓↑	1.0	↓↑ 2.0	↓↑ 1.0	↓↑	↓↑	↓↑	---		18		---
= 3500	=	42.2	= 40.1	=	=	=	=	---	=		=	70

ΣQ l/h	ΔQ l/h		l/h		MPa	ZME	A	ZME	Hz
→ ← 198.5	→ ←	→ ←	→ ←	→ ←	→ ←	→ ←	0.70	→ ←	180
↓↑ 23.9	↓↑	↓↑	↓↑	↓↑	↓↑	↓↑	---	↓↑	---
= 192.1	= 0.9	= 46.5	= 50.0	= 0.700					



Type number 0445020007	Type designation 02 CR/CP3S3/L110/30-789	Rotat. sense. 	Compensation 	Supply 12V
Manufacturer Bosch	Component CP3	Type ZME	Control point 	Temperature 40 °C
High-press. pipe	Adapter lead	Revision date 20.01.2006	Test-unit no.	

# 16	kenn . 3					Flow meas.
n /min	°C	°C	°C	kPa	p kPa	s
→ ← 3500	→ ← 40.0	→ ← 40.0	→ ← 45.0	→ ← ---	→ ← 10.0	→ ← ---
100	↓↑ 1.0	↓↑ 2.0	↓↑ 1.0	↓↑ ---	18	---
= 3500	= 41.7	= 40.0	= ---	= ---	=	= 70

ΣQ l/h	ΔQ l/h	l/h	p MPa	ZME A	ZME Hz
→ ← 122.0	→ ← ---	→ ← ---	→ ← 50.00	→ ← 1.00	→ ← 180
↓↑ 19.7		↓↑ ---	↓↑ 2.0		
= 122.7	= 0.8	= 46.3	= 50.0	= 1.000	

# 17	kenn . 4					Flow meas.
n /min	°C	°C	°C	kPa	p kPa	s
→ ← 3500	→ ← 40.0	→ ← 40.0	→ ← 45.0	→ ← ---	→ ← 10.0	→ ← ---
100	↓↑ 1.0	↓↑ 2.0	↓↑ 1.0	↓↑ ---	18	---
= 3500	= 40.8	= 40.0	= ---	= ---	=	= 70

ΣQ l/h	ΔQ l/h	l/h	p MPa	ZME A	ZME Hz
→ ← 54.0	→ ← ---	→ ← ---	→ ← 50.00	→ ← 1.20	→ ← 180
↓↑ 10.6		↓↑ ---	↓↑ 2.0		
= 62.5	= 1.1	= 47.2	= 50.2	= 1.201	

# 18	kenn . 5					Flow meas.
n /min	°C	°C	°C	kPa	p kPa	s
→ ← 3500	→ ← 40.0	→ ← 40.0	→ ← 45.0	→ ← ---	→ ← 10.0	→ ← ---
100	↓↑ 1.0	↓↑ 2.0	↓↑ 1.0	↓↑ ---	18	---
= 3500	= 40.3	= 39.9	= ---	= ---	=	= 70

ΣQ l/h	ΔQ l/h	l/h	p MPa	ZME A	ZME Hz
→ ← 10.5	→ ← ---	→ ← ---	→ ← 50.00	→ ← 1.40	→ ← 180
↓↑ 5.1		↓↑ ---	↓↑ 2.0		
= 10.6	= 2.2	= 47.2	= 50.0	= 1.401	

# 19	Relax					Flow meas.
n /min	°C	°C	°C	kPa	p kPa	s



Type number 0445020007	Type designation 02 CR/CP3S3/L110/30-789	Rotat. sense. 	Compensation 	Supply 12V
Manufacturer Bosch	Component CP3	Type ZME	Control point 	Temperature 40 °C
High-press. pipe	Adapter lead	Revision date 20.01.2006		Test-unit no.

500	40.0	40.0	45.0	---	10.0	15
100	1.0	2.0	1.0	---	18	---
= 500	= 40.2	= 40.0	= ---	= ---		= 15
ΣQ l/h	ΔQ l/h	l/h	p MPa	ZME A	ZME Hz	
---	---	---	20.00	0.40	180	
---	---	---	2.0			
= 29.8	= 2.1	= 50.1	= 20.0	= 0.400		