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Customer		Testing agency ΠΡΑΑÇ ΙΕ-Νάσαη" BOSCHSERVICE 1 έαάάέυιύέ ιόίαça äil 2		Test unit	
Tel.: Fax: Job number: Customer number:		Tel.: 273 81 97 Fax: Operator Pruefer WID: 4b 48 30 30 30 30 6d d7 74 (Hex)		Order number: 0470504009 Serial number: 503220 Vehicle: Opel Model formula: VR/4/2/70M2150R1000 Date of prod.: 870 Change index: 010	
Warranty		Error number: _____		Verification: --- Pump comparison: OK Blocking: OK	
Requested: <input type="checkbox"/> Yes <input type="checkbox"/> No		Seal: _____		Stamp, Date, Signature	
Recognised: <input type="checkbox"/> Yes <input type="checkbox"/> No					
Test equipment		Test nozzle holder: 1688901032		Overflow valve number: 1467445003	
Nozzle opening pressure: 20.70 + 0.30 MPa (207.00 + 3.00 bar)		Perforated-plate diameter: 0.4 mm		Inlet pressure: 30 kPa ± 5 kPa	
Test pressure line: 1680750092				Battery voltage: 13.5 V ± 0.1 V	
Customer complaint					
Problem					
Remarks					

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Pump comparison													
General parameters				Channel assignment									
p-Inlet [kPa]	SOD meas. [mm]	dT-Hybrid [°C]	dPhi1 [°]	Delivery	Outlet	Meas. ch.							
30		1.125	0.15	Q1	A	7							
				Q2	B	8							
				Q3	D	9							
				Q4	E	10							
	SOD angle [°]												
	222.90												
Test steps													
Designation	n [1/min]	me / me-PI [mg/H]	AD-MI / AD-PI [°NW]	Q-Avg [mm³3/H]	Q-Range [mm³3/H]	Q-Over [l/h]	Timing [°NW]	t-Ein [µs]	t-Ein-DT [µs]	T-In [°C]	T-Over [°C]	T-Hybrid [°C]	S
WI S_001	401	20.00	14.40			59				34.5		37.94	+
WI S_002	1500	30.00	25.10			108				34.8		37.94	+
WI S_003	1500	30.00	25.10			105				35.0		38.38	+
WI S_004	1500	30.00	25.10			108				35.1		39.00	+
WI S_005	1500	30.00	25.10			108				35.3		39.88	+
WI S_006	1500	30.00	25.10			107				35.4		40.31	+
WI S_007	1500	30.00	25.10	45.08	0.60	110				36.7		44.25	+
PFP S_001	1500	30.00	25.10			111				38.4		46.81	+
PFP S_002	1500	0.00	0.00			107				38.7		46.44	+
SVADBA S_001	201	---	11.70			41				39.1		47.03	+
SVAD S_001	401	---	0.00			58	0.05			39.3		46.44	+
Measurement display: Normal = OK/not evaluated Bold = not OK													
Measurement too high = ↑ Measurement too low = ↓													
(S)status + = test step OK, ? = cancelled - = test step not OK													

Pump comparison

Test steps

Designation	n [1/min]	me / me-PI [mg/H]	AD-MI / AD-PI [°NW]	Q-Avg [mm ³ /H]	Q-Range [mm ³ /H]	Q-Over [l/h]	Timing [°NW]	t-Ein [µs]	t-Ein-DT [µs]	T-In [°C]	T-Over [°C]	T-Hybrid [°C]	S
SVAD S_002	1248	---	0.00			102	-0.23			39.8		45.56	+
SVAD S_003	2149	---	0.00			117	-0.41			40.1		45.56	+
SVAD S_004	2149	---	35.00			126	14.98	948.78		40.3		46.95	+
SVAD S_005	1248	---	25.00			108	15.17			40.5		48.56	+
SVADS S_001	1250	---	24.73	55.45		106	9.00			39.2		46.81	+
SVADS S_002	398	Q1=56.00 Q2=56.40 Q3=54.10 Q4=55.60	14.92	53.40		64	9.77			39.9		44.94	+
AP 001	2149	45.66	35.70	60.48	1.50	125				30.0		41.67	+
AP 002	2149	24.91	29.81	37.40	0.80	125				32.7		44.53	+
AP 003	2149	Q1=37.50 Q2=37.80 Q3=37.00 Q4=37.30	8.31	25.67	1.20	120				30.4		41.09	+
AP 004	1750	45.66	31.26	60.67	2.20	117				34.6		44.79	+
AP 005	1749	Q1=60.90 Q2=61.70 Q3=59.50 Q4=60.60	8.31	21.47	0.70	113				35.5		43.82	+
AP 006	1249	45.66	25.80	61.13	1.90	105				34.5		42.32	+
AP 007	1000	45.66	22.83	62.60	2.50	98				35.4		42.00	+
AP 008	999	Q1=62.70 Q2=63.60 Q3=61.10 Q4=63.00	8.31	16.57	1.00	97				37.3		42.50	+
AP 009	401	45.66	16.06	68.75	2.60	63				39.4		43.36	+

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Pump comparison

Test steps

Designation	n [1/min]	me / me-PI [mg/H]	AD-MI / AD-PI [°NW]	Q-Avg [mm ³ /H]	Q-Range [mm ³ /H]	Q-Over [l/h]	Timing [°NW]	t-Ein [µs]	t-Ein-DT [µs]	T-In [°C]	T-Over [°C]	T-Hybrid [°C]	S
AP 010	400	24.91	14.25	46.65	1.70	64				37.0		40.22	+
AP 011	400	Q1=46.60 Q2=47.40 Q3=45.70 Q4=46.90	8.31	12.81	23.80	1.80	64			39.3		42.06	+
AP 012	201	Q1=22.90 Q2=24.70 Q3=23.40 Q4=24.20	24.91	12.86	61.93	1.10	39			34.6		39.19	+
AP 013	100	Q1=61.60 Q2=62.20 Q3=61.40 Q4=62.50	53.94	13.45	86.55	1.50	19			32.0		38.04	+
NP 001	1000	45.66	---	62.48	2.70	99				38.6		44.69	+
NP 002	401	Q1=62.40 Q2=63.60 Q3=60.90 Q4=63.00	8.31	---	23.43	1.50	64			36.7		40.58	+

Blocking:

General parameters

p-inlet [kPa]	SOD meas [mm]	dT-Hybrid [°C]	dPhi1 [°]
30		1.125	0.15
SOD angle [°]			
222.90			

Channel assignment

Delivery	Outlet	Meas. ch
Q1	A	7
Q2	B	8
Q3	D	9
Q4	E	10

Test steps

Designation	n [1/min]	me / me-PI [mg/H]	AD-MI / AD-PI [°NW]	Q-Avg [mm ³ /H]	Q-Range [mm ³ /H]	Q-Over [l/h]	Timing [°NW]	t-Ein [µs]	t-Ein-DT [µs]	T-In [°C]	T-Over [°C]	T-Hybrid [°C]	S
WI S_001	401	20.00				60				35.8		39.00	+
WI S_002	1500	30.00				107				36.2		39.25	+
WI S_003	1500	30.00				107				36.6		39.88	+
WI S_004	1500	30.00				109				36.8		40.75	+
WI S_005	1500	30.00				108				37.1		41.63	+
WI S_006	1500	30.00				109				37.3		42.31	+
WI S_007	1500	30.00		42.00	0.40	111				39.1		46.19	+

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