

Desc: AMTDS - CMM 73-21-04, PROJECT 83741, OVERHAUL
 Date: 31-AUG-2017
 IMTPC - TEST SPECIFICATION RESULTS PRINT REPORT

Serial No: WYGA7461 Run No: 2 Work Order: 3515737 Item No: 8061-926
 Current Status: A Run Status: F Test Type: AR Test Date: 14-AUG-2017

Test Point	Record	Units	Formula Tag	Min	Value	Max	Pass Fail
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Notes:

House filter used during ART. Leaking from VG end plates at 45 ml/min during leak check conditions - 1 ml/min at min flow conditions - and 2 ml/min at -.1400v/v fmv flow conditions.

1.0	SUBTASK 73-21-04-770-001, A. Insulation Resistance						
1.1	Test Point 1	Ins. Resistance	Mohms		MORE THAN 100		P
1.2	Test Point 2	Ins. Resistance	Mohms		MORE THAN 100		P
1.3	Test Point 3	Ins. Resistance	Mohms		MORE THAN 100		P
1.4	Test Point 4	Ins. Resistance	Mohms		MORE THAN 100		P
1.5	Test Point 5	Ins. Resistance	Mohms		MORE THAN 100		P
1.6	Test Point 6	Ins. Resistance	Mohms		MORE THAN 100		P
1.7	Test Point 7	Ins. Resistance	Mohms		MORE THAN 100		P
1.8	Test Point 8	Ins. Resistance	Mohms		MORE THAN 100		P
1.9	Test Point 9	Ins. Resistance	Mohms		MORE THAN 100		P
1.10	Test Point 10	Ins. Resistance	Mohms		MORE THAN 100		P
1.11	Test Point 11	Ins. Resistance	Mohms		MORE THAN 100		P
1.12	Test Point 12	Ins. Resistance	Mohms		MORE THAN 100		P
1.13	Test Point 13	Ins. Resistance	Mohms		MORE THAN 100		P
1.14	Test Point 14	Ins. Resistance	Mohms		MORE THAN 100		P
1.15	Test Point 15	Ins. Resistance	Mohms		MORE THAN 100		P
1.16	Test Point 16	Ins. Resistance	Mohms		MORE THAN 100		P
1.17	Test Point 17	Ins. Resistance	Mohms		MORE THAN 100		P
1.18	Test Point 18	Ins. Resistance	Mohms		MORE THAN 100		P
1.19	Test Point 19	Ins. Resistance	Mohms		MORE THAN 100		P
1.20	Test Point 20	Ins. Resistance	Mohms		MORE THAN 100		P
1.21	Test Point 21	Ins. Resistance	Mohms		MORE THAN 100		P
1.22	Test Point 22	Ins. Resistance	Mohms		MORE THAN 100		P
1.23	Test Point 23	Ins. Resistance	Mohms		MORE THAN 100		P

2.0	SUBTASK 73-21-04-770-002, B. COIL RESISTANCE						
2.1	(4)	Coil Resistance	ohms	32.9	35.5	38.5	P
2.2	(6)	Coil Resistance	ohms	32.9	35.6	38.5	P
2.3	(8)	Coil Resistance	ohms	86.9	90.0	100.9	P
2.4	(10)	Coil Resistance	ohms	86.9	89.0	100.9	P
2.5	(12)	Coil Resistance	ohms	35.7	40.9	45.5	P
2.6	(14)	Coil Resistance	ohms	35.7	40.5	45.5	P
2.7	(16)	Coil Resistance	ohms	85.0	94.2	105.0	P
2.8	(18)	Coil Resistance	ohms	85.0	93.4	105.0	P
2.9	(20)	Coil Resistance	ohms	157.0	168.9	191.0	P
2.10	(22)	Coil Resistance	ohms	157.0	169.2	191.0	P
2.11	(24)	Coil Resistance	ohms	157.0	170.6	191.0	P
2.12	(26)	Coil Resistance	ohms	157.0	171.0	191.0	P
2.13	(28)	Coil Resistance	ohms		MORE THAN 100K		P
2.14	(30)	Coil Resistance	ohms		MORE THAN 100K		P
2.15	(32)	Coil Resistance	ohms	107.3	108.9	112.2	P
2.16	(34)	Coil Resistance	ohms	107.3	109.0	112.2	P

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3.0	SUBTASK 73-21-01-770-003, C. Electrical Bonding						
3.1	(3)	ELE_Bond		0.0	0.4	2.5	P
3.2	(4)	ELE_Bond		0.0	0.3	2.5	P
4.0	SUBTASK 73-21-04-770-004, D. Impending Bypass Switch.						
4.1	(4)	Pb-Pb'		16.0	21.7	19.0	FAIL
4.2	(6)	IBI Resistance		0.0	0.6	10.0	P
4.3	(8)	IBI Resistance		0.0	0.3	10.0	P
4.4	(10)	Pb-Pb'		11.0	14.8	10000.0	P
5.0	SUBTASK 73-21-04-770-005, E. Filter Bypass Valve Indicator						
5.1	(4)	Leakage		0	1	500	P
5.2	(6)	Pb-Pb'		26.0	31.5	35.0	P
5.3	(8)	Leakage		0	55	500	P
5.4	(12)	Pb-Pb'		0.0	41.5	45.0	P
6.0	SUBTASK 73-21-04-770-006, F. Nozzle Simulator Check						
7.0	SUBTASK 73-21-04-770-007, A. Bypass Valve Delta P Calibration						
8.0	SUBTASK 73-21-04-770-008, B. Outlet Pressurizing Valve Calibration						
9.0	SUBTASK 73-21-04-770-009, C. Inlet Pressurizing Valve Calibration						
10.0	SUBTASK 73-21-04-770-010, D. Fuel Metering Valve Calibration						
11.0	SUBTASK 73-21-04-770-011, E. Acceptance Test Preparation						
11.1	(7)	Ext Leak			LEAKAGE		FAIL
12.0	SUBTASK 73-21-04-770-012, A. Fuel Metering System, (1) LVDT Voltage ratio Vs. Fuel Flow						
12.1	(1) LVDT Voltage ratio Vs. Fuel Flow						
12.1.1	(b), Test Point 1 Fuel Flow - Channel A	Wf		144	145	156	P
12.1.2	(b), Test Point 1 Fuel Flow - Channel B	Wf		144	145	156	P
12.1.3	(b), Test Point 2 Fuel Flow -	Wf		344	346	370	P

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12.1.4	(b), Test Point 2 Fuel Flow - Channel B	pph		344	346	370	P
12.1.5	(b), Test Point 3 Fuel Flow - Channel A	pph		706	710	747	P
12.1.6	(b), Test Point 3 Fuel Flow - Channel B	pph		706	711	747	P
12.1.7	(b), Test Point 4 Fuel Flow - Channel A	pph		1011	1001	1035	FAIL
12.1.8	(b), Test Point 4 Fuel Flow - Channel B	pph		1011	1002	1035	FAIL
12.1.9	(b), Test Point 5 Fuel Flow - Channel A	pph		1439	1434	1493	FAIL
12.1.10	(b), Test Point 5 Fuel Flow - Channel B	pph		1439	1434	1493	FAIL
12.1.11	(b), Test Point 6 Fuel Flow - Channel A	pph		2034	2025	2106	FAIL
12.1.12	(b), Test Point 6 Fuel Flow - Channel B	pph		2034	2026	2106	FAIL
12.1.13	(b), Test Point 7 Fuel Flow - Channel A	pph		2469	2491	2567	P
12.1.14	(b), Test Point 7 Fuel Flow - Channel B	pph		2469	2492	2567	P
12.1.15	(b), Test Point 8 Fuel Flow - Channel A	pph		2931	2940	3057	P
12.1.16	(b), Test Point 8 Fuel Flow - Channel B	pph		2931	2941	3057	P
12.1.17	(b), Test Point 9 Fuel Flow - Channel A	pph		3596	3567	3764	FAIL
12.1.18	(b), Test Point 9 Fuel Flow - Channel B	pph		3596	3572	3764	FAIL
12.1.19	(b), Test Point 10 Fuel Flow - Channel A	pph		4799	4827	5065	P
12.1.20	(b), Test Point 10 Fuel Flow - Channel B	pph		4799	4837	5065	P
12.1.21	(b), Test Point 11 Fuel Flow - Channel A	pph		5512	5473	5792	FAIL
12.1.22	(b), Test Point 11 Fuel Flow - Channel B	pph		5512	5481	5792	FAIL
12.1.23	(b), Test Point 12 Fuel Flow - Channel A	pph		6309	6282	6707	FAIL
12.1.24	(b), Test Point 12 Fuel Flow - Channel B	pph		6309	6294	6707	FAIL
12.1.25	(b), Test Point 13 Fuel Flow - Channel A	pph		7211	7292	7491	P
12.1.26	(b), Test Point 13 Fuel Flow - Channel B	pph		7211	7301	7491	P
12.1.27	(b), Test Point 14 Fuel Flow - Channel A	pph		7211	7401	9000	P
12.1.28	(b), Test Point 14 Fuel Flow - Channel B	pph		7211	7400	9000	P

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Channel-B							
12.1.29 (b), Test Point 15 Fuel Flow - Channel A	Wf	pph		4799	4823	5065	P
12.1.30 (b), Test Point 15 Fuel Flow - Channel B	Wf	pph		4799	4837	5065	P
12.1.31 (b), Test Point 16 Fuel Flow - Channel A	Wf	pph		2931	2975	3057	P
12.1.32 (b), Test Point 16 Fuel Flow - Channel B	Wf	pph		2931	2978	3057	P
12.1.33 (b), Test Point 17 Fuel Flow - Channel A	Wf	pph		1439	1459	1493	P
12.1.34 (b), Test Point 17 Fuel Flow - Channel B	Wf	pph		1439	1458	1493	P
12.1.35 (b), Test Point 18 Fuel Flow - Channel A	Wf	pph		706	723	747	P
12.1.36 (b), Test Point 18 Fuel Flow - Channel B	Wf	pph		706	724	747	P
12.1.37 (b), Test Point 19 Fuel Flow - Channel A	Wf	pph		344	361	370	P
12.1.38 (b), Test Point 19 Fuel Flow - Channel B	Wf	pph		344	361	370	P
12.1.39 (b), Test Point 20 Fuel Flow - Channel A	Wf	pph		101	106	119	P
12.1.40 (b), Test Point 20 Fuel Flow - Channel B	Wf	pph		101	106	119	P
12.1.41 (c), Test Point 1 P1-P2	P1-P2	psid		40	49	60	P
12.1.42 (c), Test Point 19 P1-P2	P1-P2	psid		40	53	60	P
12.1.43 (d), Test Point 14 LVDT Voltage Ratio	Vv A	v/v		- .4000	-0.3594	0.3330	P
13.0	SUBTASK 73-21-04-770-012, A. Fuel Metering System, (2), (3), (4)						
13.1	(2) Fuel Metering Valve Deadband						
13.1.1 (d)	Ifmv A	mA	INCFMVA	5.00	11.09	15.00	P
13.1.2 (f)	Ifmv A	mA	DECFMVA	5.00	10.92	11.09 (Calc)	P
13.1.3 (h)	=INCFMVA-DECFMVA			0.00	0.17	3.00	P
13.1.4 (j)	Ifmv B	mA	INCFMVB	5.00	10.99	15.00	P
13.1.5 (l)	Ifmv B	mA	DECFMVB	5.00	10.84	10.99 (Calc)	P
13.1.6 (n)	=INCFMVB-DECFMVB			0.00	0.15	3.00	P
13.2	(3) Fuel Metering Valve Null Current						
13.2.1 (d)	=(INCFMVA+DECFMVA)/2			7.75	11.01	12.25	P
13.2.2 (f)	=(INCFMVB+DECFMVB)/2			7.75	10.92	12.25	P
13.3	(4) Fuel Metering Valve Time Response						
13.3.1 (d), Channel A	FMV Timing	Sec		1.858	2.200	2.365	P
13.3.2 (h), Channel B	FMV Timing	Sec		1.858	1.975	2.365	P
13.3.3 (l), Channel A	FMV Timing	Sec		0.480	0.501	0.600	P
13.3.4 (q), Channel B	FMV Timing	Sec		0.367	0.445	0.463	P
13.3.5 (u)	FMV Timing	Sec		0.000	1.881	3.350	P

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14.0	SUBTASK 73-21-04-770-012, A. Fuel Metering System, (5), (6)						
14.1	(5) d%Stk vs dmA Frequency Response						
14.1.1	(b), Test Point 1, Gain	LVDT Gain	d%Stk/dmA	0.037	0.050	0.060	P
14.1.2	(b), Test Point 1, Phase	LVDT Phase	deg	-116	-101	-90	P
14.1.3	(b), Test Point 2, Gain	LVDT Gain	d%Stk/dmA	0.055	0.073	0.086	P
14.1.4	(b), Test Point 2, Phase	LVDT Phase	deg	-110	-99	-90	P
14.1.5	(b), Test Point 3, Gain	LVDT Gain	d%Stk/dmA	0.078	0.104	0.121	P
14.1.6	(b), Test Point 3, Phase	LVDT Phase	deg	-105	-97	-90	P
14.1.7	(b), Test Point 4, Gain	LVDT Gain	d%Stk/dmA	0.127	0.168	0.201	P
14.1.8	(b), Test Point 4, Phase	LVDT Phase	deg	-100	-95	-90	P
14.1.9	(b), Test Point 5, Gain	LVDT Gain	d%Stk/dmA	0.313	0.434	0.600	P
14.1.10	(b), Test Point 5, Phase	LVDT Phase	deg	-98	-92	-90	P
14.2	(6) dwf vs dmA Frequency Response						
14.2.1	(b), Test Point 1, Gain	Flow Gain	dpvh/dmA	3.56	5.45	9.93	P
14.2.2	(b), Test Point 1, Phase	Flow Phase	deg	-168	-153	-90	P
14.2.3	(b), Test Point 2, Gain	Flow Gain	dpvh/dmA	6.40	8.89	14.20	P
14.2.4	(b), Test Point 2, Phase	Flow Phase	deg	-151	-134	-90	P
14.2.5	(b), Test Point 3, Gain	Flow Gain	dpvh/dmA	10.30	13.53	19.90	P
14.2.6	(b), Test Point 3, Phase	Flow Phase	deg	-136	-122	-90	P
14.2.7	(b), Test Point 4, Gain	Flow Gain	dpvh/dmA	19.30	25.25	33.20	P
14.2.8	(b), Test Point 4, Phase	Flow Phase	deg	-122	-109	-90	P
14.2.9	(b), Test Point 5, Gain	Flow Gain	dpvh/dmA	60.40	85.44	99.40	P
14.2.10	(b), Test Point 5, Phase	Flow Phase	deg	-105	-99	-90	P
15.0	SUBTASK 73-21-04-770-012, A. Fuel Metering System, (7) Shut Off Leakage						
15.1	(7) Shut Off Leakage						
15.1.1	(c)	S/O Leak1	cc/min	0	102	98	FAIL
16.0	TR-73-02 + SUBTASK 73-21-04-770-013, B. VG System						
16.1	(1) VG EHSV Hysteresis						
16.1.1	(d)	Ivg A	mA	DECVGA	7.00	10.10	P
16.1.2	(f)	Ivg A	mA	INCVGA	10.10 (Calc)	11.30	P
16.1.3	(h)	=INCVGA-DECVGA			0.00	1.20	P
16.1.4	(j)	Ivg B	mA	DECVGB	7.00	10.10	P
16.1.5	(l)	Ivg B	mA	INCVGB	10.10 (Calc)	11.30	P
16.1.6	(n)	=INCVGB-DECVGB			0.00	1.20	P
16.2	(2) VG EHSV Null Setting						
16.2.1	(b)	=(INCVGA+DECVGA)/2			10.50	10.70	P
16.2.2	(d)	=(INCVGB+DECVGB)/2			10.50	10.70	P
16.3	(3) VG EHSV Flow Schedule						
16.3.1	(c), Test Point 1, Channel A	wvg	pvh	2472	2779	3146	P
16.3.2	(c), Test Point 1, Channel B	wvg	pvh	2472	2772	3146	P
16.3.3	(c), Test Point 2, Channel A	wvg	pvh	1421	1608	1809	P
16.3.4	(c), TR 73-02, Test Point 3,	wvg	pvh	2776	3398	3534	P

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-----Channel-A-----							
16.3.5	(c), TR 73-02, Test Point 3, Channel B	Wvg		2776	3398	3534	P
16.3.6	(c), TR 73-02, Test Point 4, Channel B	Wvg		1759	2099	2239	P
16.3.7	(c), TR 73-02, Test Point 5, Channel B	Wvg		695	839	885	P

17.0	SUBTASK 73-21-04-770-014, C. Pressurizing System						
17.1	(2), Test Point 1, Ps-Pb'	Ps-Pb'		145	147	155	P
17.2	(2), Test Point 2, Ps-Pb'	Ps-Pb'		345	343	355	FAIL

18.0	SUBTASK 73-21-04-770-015, D. S/O System						
18.1	(1) Shut-off Timing						
18.1.1	(d)	Overspeed Timing		0	78	100	P
18.1.2	(h)	Overspeed Timing		0	86	100	P
18.2	(2) Pump Unloading Pressure						
18.2.1	(d)	Ps-Pb'		0	374	400	P
18.2.2	(h)	Ps-Pb'		0	240	280	P
18.3	(3) Shut-off Leakage						
18.3.1	(d)	S/O Leak2		0	1	5	P
18.3.2	(h)	S/O Leak2		0	1	5	P
18.4	TR 73-01, (4) Shutoff Solenoid Dual Channel Activation						
18.4.1	(c)	Shutoff			YES		P

19.0	SUBTASK 73-21-01-770-016, E. FMU Level Tests						
19.1	(1) Internal Leakage						
19.1.1	(d)	Wo		70	111	156	P
19.1.2	(h)	Wo		70	297	383	P
19.2	(2) FMU Pressure Drop						
19.2.1	(d)	Ps-Pn		0.0	71.0	80.0	P
19.3	(3) Filter Pressure Drop						
19.3.1	(c)	Pb-Pb'	PDROP	0.0	2.2	8.0	P
19.3.2	(d)	=PDROP-3		-3	-1	5	P
19.4	(4) Proof Pressure and External Leakage check						
19.4.1	(g)	Ext Leak			LEAKAGE		FAIL

20.0	SUBTASK 73-21-04-770-012, A. Fuel Metering System						
20.1	(1) LVDT Voltage Ratio Vs. Fuel Flow						
20.1.1	(b), Test Point 1 Fuel Flow - Channel A (to slew FMV to min stop position)	Wf		144	145	156	P

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Status: A
Run Type: AR
Work Order Number:
Order By: 1

* End of IMTPC *
