



TEST REPORT

Performed for: Miele
 IBR JN: 10222-G
 Date: March 14, 2009

Location: Princeton, NJ
 Contact: N. Gast

Test Method: Vacuum Cleaner Fractional Efficiency per ASTM F1977-04
 Flow Rate: 47 SCFM Sheath Air Flow Rate: 141 SCFM
 Conditions: Temp. 69F, Relative Humidity 46%, Barometric Pressure 722 mm Hg
 Instrumentation: HR 5230, S/N 041002003, Cal due May-09
 Contaminant: KCl Neutralized

Description of Sample: Simplicity Synergy Premium Upright Vacuum Cleaner TEST-1
 Model: G9.2 S/N: 8D0002224 Filters: As installed by manufacturer
 Date Samples Received: February 13, 2009 Sample Source: IBR Open Mkt Purchase

Time mins	Motor Status	Inject Status	Port	Particles/5ft3 at:(in microns)						
				0.3-0.4	0.4-0.5	0.5-0.6	0.6-0.8	0.8-1	1-2.5	2.5-3.75
5	off	off	Downstream	33	8	4	2	5	4	3
5	off	off	Downstream	17	2	3	0	3	3	5
5	off	off	Downstream	18	5	1	2	3	5	11
5	on	off	Downstream	9,464	6,848	2,280	1,104	532	816	212
5	on	off	Upstream	0	0	0	0	0	0	0
5	on	off	Downstream	9,920	7,532	2,332	1,224	584	1,080	256
5	on	off	Upstream	0	0	0	0	0	0	0
5	on	off	Downstream	9,340	7,036	2,072	1,076	504	848	224
5	on	off	Upstream	1	0	0	0	0	0	1
5	on	on	Upstream	8,153,580	6,760,320	1,671,900	585,240	171,570	89,850	2,220
5	on	on	Downstream	181,148	72,228	7,672	1,884	720	720	256
5	on	on	Upstream	8,368,320	6,828,900	1,653,390	560,790	160,650	79,020	1,980
5	on	on	Downstream	169,096	65,308	7,336	1,844	632	892	196
5	on	on	Upstream	8,353,080	6,858,060	1,676,880	578,760	166,890	87,300	2,100
5	on	on	Downstream	173,648	66,492	7,484	1,984	716	792	216
			Total upstream	24,874,980	20,447,280	5,002,170	1,724,790	499,110	256,170	6,300
			Total downstream	523,892	204,028	22,492	5,712	2,068	2,404	668
			Net downstream	495,168	182,612	15,808	2,308	448	-340	-24
			Gross Efficiency	97.89	99.00	99.55	99.67	99.59	99.06	89.40
			Net Efficiency	98.01	99.11	99.68	99.87	99.91	>99.99	>99.9

Notice: These data relate only to the samples tested. This report may be copied only in its entirety.
 pg 1/3 Performed By: DN Data Location: DN69

Reviewed By: _____
 Susan H Goldsmith, Director of Technical Services
 IBR 11599 Morrissey Rd Grass Lake MI USA 49240 Voice 517-522-8453

TEST REPORT

Performed for: Miele
 IBR JN: 10222-G
 Date: March 14, 2009

Location: Princeton, NJ
 Contact: N. Gast

Test Method: Vacuum Cleaner Fractional Efficiency per ASTM F1977-04
 Flow Rate: 47 SCFM Sheath Air Flow Rate: 141 SCFM
 Conditions: Temp. 69F, Relative Humidity 46%, Barometric Pressure 722 mm Hg
 Instrumentation: HR 5230, S/N 041002003, Cal due May-09
 Contaminant: KCl Neutralized

Description of Sample: Simplicity Synergy Premium Upright Vacuum Cleaner TEST-2
 Model: G9.2 S/N: 8D0002224 Filters: As installed by manufacturer
 Date Samples Received: February 13, 2009 Sample Source: IBR Open Mkt Purchase

Time mins	Motor Status	Inject Status	Port	Particles/5ft3 at:(in microns)						
				0.3-0.4	0.4-0.5	0.5-0.6	0.6-0.8	0.8-1	1-2.5	2.5-3.75
5	off	off	Downstream	9	4	1	1	0	3	2
5	off	off	Downstream	4	3	0	0	0	0	0
5	off	off	Downstream	12	5	2	2	0	2	2
5	on	off	Downstream	7,912	6,528	1,976	916	516	896	276
5	on	off	Upstream	0	5	0	0	2	0	1
5	on	off	Downstream	8,900	6,728	1,988	1,140	476	940	352
5	on	off	Upstream	0	1	0	0	0	0	0
5	on	off	Downstream	8,784	6,696	1,912	1,132	492	724	276
5	on	off	Upstream	4	2	0	0	0	1	0
5	on	on	Upstream	8,213,220	6,618,090	1,555,440	526,650	145,740	76,680	1,950
5	on	on	Downstream	186,956	77,572	9,084	2,216	784	916	316
5	on	on	Upstream	8,197,110	6,484,410	1,494,480	482,340	133,860	67,920	2,220
5	on	on	Downstream	187,976	79,100	8,956	2,452	816	964	244
5	on	on	Upstream	8,220,000	6,561,420	1,547,580	515,820	137,640	72,180	1,920
5	on	on	Downstream	184,788	74,648	8,452	2,200	660	824	272
Total upstream				24,630,330	19,663,920	4,597,500	1,524,810	417,240	216,780	6,090
Total downstream				559,720	231,320	26,492	6,868	2,260	2,704	832
Net downstream				534,124	211,368	20,616	3,680	776	144	-72
Gross Efficiency				97.73	98.82	99.42	99.55	99.46	98.75	86.34
Net Efficiency				97.83	98.93	99.55	99.76	>99.99	>99.99	>99.9

Notice: These data relate only to the samples tested. This report may be copied only in its entirety.
 pg 2/3 Performed By: DN Data Location: DN69

Reviewed By: _____
 Susan H Goldsmith, Director of Technical Services
 IBR 11599 Morrissey Rd Grass Lake MI USA 49240 Voice 517-522-8453

TEST REPORT

Performed for: Miele
 IBR JN: 10222-G
 Date: March 14, 2009

Location: Princeton, NJ
 Contact: N. Gast

Test Method: Vacuum Cleaner Fractional Efficiency per ASTM F1977-04
 Flow Rate: 47 SCFM Sheath Air Flow Rate: 141 SCFM
 Conditions: Temp. 69F, Relative Humidity 46%, Barometric Pressure 722 mm Hg
 Instrumentation: HR 5230, S/N 041002003, Cal due May-09
 Contaminant: KCl Neutralized

Description of Sample: Simplicity Synergy Premium Upright Vacuum Cleaner TEST-3
 Model: G9.2 S/N: 8D0002224 Filters: As installed by manufacturer
 Date Samples Received: February 13, 2009 Sample Source: IBR Open Mkt Purchase

Time mins	Motor Status	Inject Status	Port	Particles/5ft3 at:(in microns)						
				0.3-0.4	0.4-0.5	0.5-0.6	0.6-0.8	0.8-1	1-2.5	2.5-3.75
5	off	off	Downstream	47	16	21	4	2	0	0
5	off	off	Downstream	47	19	28	2	2	0	0
5	off	off	Downstream	51	35	31	3	3	0	0
5	on	off	Downstream	8,692	6,712	2,028	1,048	516	792	296
5	on	off	Upstream	9	1	2	0	3	3	2
5	on	off	Downstream	9,224	6,736	2,152	1,016	484	748	308
5	on	off	Upstream	5	1	1	0	0	2	0
5	on	off	Downstream	8,480	6,440	2,004	948	536	784	300
5	on	off	Upstream	3	4	1	0	0	3	0
5	on	on	Upstream	8,234,340	6,157,800	1,499,190	524,670	137,100	65,670	1,920
5	on	on	Downstream	194,220	82,492	9,444	2,492	632	764	304
5	on	on	Upstream	8,560,890	6,098,670	1,275,600	442,140	130,620	62,310	1,560
5	on	on	Downstream	195,932	83,788	9,536	2,444	728	716	264
5	on	on	Upstream	8,026,890	6,235,200	1,412,820	459,990	134,280	65,970	1,770
5	on	on	Downstream	192,012	81,384	9,228	2,552	724	740	284
Total upstream				24,822,120	18,491,670	4,187,610	1,426,800	402,000	193,950	5,250
Total downstream				582,164	247,664	28,208	7,488	2,084	2,220	852
Net downstream				555,768	227,776	22,024	4,476	548	-104	-52
Gross Efficiency				97.65	98.66	99.33	99.48	99.48	98.86	83.77
Net Efficiency				97.76	98.77	99.47	99.69	99.86	>99.99	>99.9

Notice: These data relate only to the samples tested. This report may be copied only in its entirety.
 pg 3/3 Performed By: DN Data Location: DN69

Reviewed By: _____
 Susan H Goldsmith, Director of Technical Services
 IBR 11599 Morrissey Rd Grass Lake MI USA 49240 Voice 517-522-8453



TEST REPORT

Performed for: Miele
 IBR JN: 10222-H
 Date: March 14, 2009

Location: Princeton, NJ
 Contact: N. Gast

Test Method: Vacuum Cleaner Fractional Efficiency per ASTM F1977-04
 Flow Rate: 47 SCFM Sheath Air Flow Rate: 141 SCFM
 Conditions: Temp. 70F, Relative Humidity 48%, Barometric Pressure 722 mm Hg
 Instrumentation: HR 5230, S/N 041002003, Cal due May-09
 Contaminant: KCl Neutralized

Description of Sample: Simplicity Synergy Premium Upright Vacuum Cleaner TEST-1

Model: G9.2 S/N: 8D0002217 Filters: As installed by manufacturer
 Date Samples Received: February 13, 2009 Sample Source: IBR Open Mkt Purchase

Time mins	Motor Status	Inject Status	Port	Particles/5ft3 at:(in microns)						
				0.3-0.4	0.4-0.5	0.5-0.6	0.6-0.8	0.8-1	1-2.5	2.5-3.75
5	off	off	Downstream	33	18	19	5	6	0	0
5	off	off	Downstream	44	19	19	1	1	0	0
5	off	off	Downstream	47	16	18	2	1	0	0
5	on	off	Downstream	9,284	8,064	2,560	1,416	640	1,100	276
5	on	off	Upstream	0	1	0	0	0	0	1
5	on	off	Downstream	9,700	8,748	2,900	1,428	604	1,032	248
5	on	off	Upstream	1	1	0	0	0	0	1
5	on	off	Downstream	9,396	8,504	2,892	1,400	680	1,104	252
5	on	off	Upstream	2	0	0	0	0	2	1
5	on	on	Upstream	7,699,200	5,582,880	1,228,020	394,770	108,480	58,710	2,160
5	on	on	Downstream	145,056	51,704	6,016	1,968	620	1,044	244
5	on	on	Upstream	8,218,980	5,537,610	1,119,090	329,610	92,730	47,820	1,290
5	on	on	Downstream	148,232	55,052	6,816	2,112	768	1,124	256
5	on	on	Upstream	8,028,510	5,687,130	1,197,570	373,170	104,220	52,620	1,620
5	on	on	Downstream	141,540	51,004	5,928	1,996	732	1,004	208
Total upstream				23,946,690	16,807,620	3,544,680	1,097,550	305,430	159,150	5,070
Total downstream				434,828	157,760	18,760	6,076	2,120	3,172	708
Net downstream				406,448	132,444	10,408	1,832	196	-64	-68
Gross Efficiency				98.18	99.06	99.47	99.45	99.31	98.01	86.04
Net Efficiency				98.30	99.21	99.71	99.83	99.94	>99.99	>99.9

Notice: These data relate only to the samples tested. This report may be copied only in its entirety.

pg 1/3

Performed By: DN

Data Location: DN69

Reviewed By:

 Susan H Goldsmith, Director of Technical Services

IBR 11599 Morrissey Rd Grass Lake MI USA 49240 Voice 517-522-8453

TEST REPORT

Performed for: Miele
 IBR JN: 10222-H
 Date: March 14, 2009

Location: Princeton, NJ
 Contact: N. Gast

Test Method: Vacuum Cleaner Fractional Efficiency per ASTM F1977-04
 Flow Rate: 47 SCFM Sheath Air Flow Rate: 141 SCFM
 Conditions: Temp. 70F, Relative Humidity 48%, Barometric Pressure 722 mm Hg
 Instrumentation: HR 5230, S/N 041002003, Cal due May-09
 Contaminant: KCI Neutralized

Description of Sample: Simplicity Synergy Premium Upright Vacuum Cleaner TEST-2

Model: G9.2 S/N: 8D0002217 Filters: As installed by manufacturer
 Date Samples Received: February 13, 2009 Sample Source: IBR Open Mkt Purchase

Time mins	Motor Status	Inject Status	Port	Particles/5ft3 at:(in microns)						
				0.3-0.4	0.4-0.5	0.5-0.6	0.6-0.8	0.8-1	1-2.5	2.5-3.75
5	off	off	Downstream	43	19	10	3	0	0	0
5	off	off	Downstream	41	16	11	0	1	0	0
5	off	off	Downstream	34	18	12	3	1	0	0
5	on	off	Downstream	9,644	8,892	2,856	1,496	888	1,076	272
5	on	off	Upstream	7	2	1	0	1	0	1
5	on	off	Downstream	11,808	11,692	3,952	2,180	1,024	1,080	296
5	on	off	Upstream	0	0	0	0	0	0	0
5	on	off	Downstream	10,872	10,160	3,340	1,864	892	1,168	228
5	on	off	Upstream	3	0	0	0	0	0	0
5	on	on	Upstream	7,932,660	6,191,400	1,458,930	508,020	155,130	82,350	2,130
5	on	on	Downstream	169,088	62,668	7,208	2,580	1,008	1,192	244
5	on	on	Upstream	7,802,580	5,850,690	1,318,560	451,980	133,650	69,270	1,860
5	on	on	Downstream	161,148	58,424	7,332	2,460	1,112	1,092	264
5	on	on	Upstream	7,894,680	6,059,820	1,397,520	480,990	140,340	77,370	2,310
5	on	on	Downstream	163,776	59,544	7,032	2,516	1,024	1,132	256
Total upstream				23,629,920	18,101,910	4,175,010	1,440,990	429,120	228,990	6,300
Total downstream				494,012	180,636	21,572	7,556	3,144	3,416	764
Net downstream				461,688	149,892	11,424	2,016	340	92	-32
Gross Efficiency				97.91	99.00	99.48	99.48	99.27	98.51	87.87
Net Efficiency				98.05	99.17	99.73	99.86	99.92	99.96	>99.9

Notice: These data relate only to the samples tested. This report may be copied only in its entirety.
 pg 2/3 Performed By: DN Data Location: DN69

Reviewed By: _____

Susan H Goldsmith, Director of Technical Services
 IBR 11599 Morrissey Rd Grass Lake MI USA 49240 Voice 517-522-8453

TEST REPORT

Performed for: Miele
 IBR JN: 10222-H
 Date: March 14, 2009

Location: Princeton, NJ
 Contact: N. Gast

Test Method: Vacuum Cleaner Fractional Efficiency per ASTM F1977-04
 Flow Rate: 47 SCFM Sheath Air Flow Rate: 141 SCFM
 Conditions: Temp. 70F, Relative Humidity 48%, Barometric Pressure 722 mm Hg
 Instrumentation: HR 5230, S/N 041002003, Cal due May-09
 Contaminant: KCl Neutralized

Description of Sample: Simplicity Synergy Premium Upright Vacuum Cleaner TEST-3

Model: G9.2 S/N: 8D0002217 Filters: As installed by manufacturer
 Date Samples Received: February 13, 2009 Sample Source: IBR Open Mkt Purchase

Time mins	Motor Status	Inject Status	Port	Particles/5ft3 at:(in microns)						
				0.3-0.4	0.4-0.5	0.5-0.6	0.6-0.8	0.8-1	1-2.5	2.5-3.75
5	off	off	Downstream	25	8	15	1	0	0	0
5	off	off	Downstream	33	16	5	2	1	0	0
5	off	off	Downstream	36	13	10	5	0	0	0
5	on	off	Downstream	10,220	8,860	2,924	1,456	740	1,012	260
5	on	off	Upstream	1	0	0	0	0	0	0
5	on	off	Downstream	10,064	8,680	2,784	1,508	756	1,116	232
5	on	off	Upstream	0	0	0	0	0	0	0
5	on	off	Downstream	10,456	9,356	3,192	1,360	700	1,024	272
5	on	off	Upstream	0	0	0	0	0	0	0
5	on	on	Upstream	8,428,950	7,013,490	1,779,660	649,470	204,060	111,270	3,090
5	on	on	Downstream	192,544	73,364	8,596	2,452	960	1,056	232
5	on	on	Upstream	8,185,020	6,548,610	1,566,660	553,260	175,560	92,160	2,220
5	on	on	Downstream	178,200	67,552	7,588	2,120	896	1,092	248
5	on	on	Upstream	8,284,650	6,725,940	1,652,400	605,250	182,130	102,840	2,730
5	on	on	Downstream	181,292	68,768	7,652	2,232	844	1,080	240
Total upstream				24,898,620	20,288,040	4,998,720	1,807,980	561,750	306,270	8,040
Total downstream				552,036	209,684	23,836	6,804	2,700	3,228	720
Net downstream				521,296	182,788	14,936	2,480	504	76	-44
Gross Efficiency				97.78	98.97	99.52	99.62	99.52	98.95	91.04
Net Efficiency				97.91	99.10	99.70	99.86	99.91	99.98	>99.9

Notice: These data relate only to the samples tested. This report may be copied only in its entirety.

pg 3/3

Performed By: DN

Data Location: DN69

Reviewed By: _____

Susan H Goldsmith, Director of Technical Services

IBR 11599 Morrissey Rd Grass Lake MI USA 49240 Voice 517-522-8453



TEST REPORT

Performed for: Miele
 IBR JN: 10222-I
 Date: March 14, 2009

Location: Princeton, NJ
 Contact: N. Gast

Test Method: Vacuum Cleaner Fractional Efficiency per ASTM F1977-04
 Flow Rate: 47 SCFM Sheath Air Flow Rate: 141 SCFM
 Conditions: Temp. 71F, Relative Humidity 47%, Barometric Pressure 721 mm Hg
 Instrumentation: HR 5230, S/N 041002003, Cal due May-09
 Contaminant: KCl Neutralized

Description of Sample: Simplicity Synergy Premium Upright Vacuum Cleaner TEST-1
 Model: G9.2 S/N: 8D0002221 Filters: As installed by manufacturer
 Date Samples Received: February 13, 2009 Sample Source: IBR Open Mkt Purchase

Time mins	Motor Status	Inject Status	Port	Particles/5ft3 at: (in microns)						
				0.3-0.4	0.4-0.5	0.5-0.6	0.6-0.8	0.8-1	1-2.5	2.5-3.75
5	off	off	Downstream	25	10	10	0	0	0	0
5	off	off	Downstream	11	1	9	0	0	0	0
5	off	off	Downstream	7	1	2	2	1	0	0
5	on	off	Downstream	55,012	43,000	14,164	7,380	3,312	4,588	780
5	on	off	Upstream	10	5	2	1	0	1	0
5	on	off	Downstream	55,552	44,036	13,100	6,544	3,056	4,344	808
5	on	off	Upstream	3	0	1	0	0	0	0
5	on	off	Downstream	55,276	43,992	13,636	6,856	3,256	4,448	796
5	on	off	Upstream	5	2	0	1	0	0	0
5	on	on	Upstream	9,027,420	7,123,860	1,586,040	493,770	131,760	63,150	1,620
5	on	on	Downstream	169,388	79,828	15,784	6,804	3,212	4,480	796
5	on	on	Upstream	9,186,870	7,120,050	1,571,070	486,810	129,150	62,280	2,760
5	on	on	Downstream	169,920	81,596	16,044	7,248	3,352	4,344	784
5	on	on	Upstream	9,087,030	7,136,790	1,581,870	494,520	133,020	62,490	1,320
5	on	on	Downstream	161,008	77,504	15,764	7,100	3,164	4,488	768
Total upstream				27,301,320	21,380,700	4,738,980	1,475,100	393,930	187,920	5,700
Total downstream				500,316	238,928	47,592	21,152	9,728	13,312	2,348
Net downstream				334,476	107,900	6,692	372	104	-68	-36
Gross Efficiency				98.17	98.88	99.00	98.57	97.53	92.92	58.81
Net Efficiency				98.77	99.50	99.86	99.97	99.97	>99.99	>99.9

Notice: These data relate only to the samples tested. This report may be copied only in its entirety.
 pg 1/3 Performed By: DN Data Location: DN69

Reviewed By: _____
 Susan H Goldsmith, Director of Technical Services
 IBR 11599 Morrissey Rd Grass Lake MI USA 49240 Voice 517-522-8453

TEST REPORT

Performed for: Miele
 IBR JN: 10222-I
 Date: March 14, 2009

Location: Princeton, NJ
 Contact: N. Gast

Test Method: Vacuum Cleaner Fractional Efficiency per ASTM F1977-04
 Flow Rate: 47 SCFM Sheath Air Flow Rate: 141 SCFM
 Conditions: Temp. 71F, Relative Humidity 47%, Barometric Pressure 721 mm Hg
 Instrumentation: HR 5230, S/N 041002003, Cal due May-09
 Contaminant: KCl Neutralized

Description of Sample: Simplicity Synergy Premium Upright Vacuum Cleaner TEST-2
 Model: G9.2 S/N: 8D0002221 Filters: As installed by manufacturer
 Date Samples Received: February 13, 2009 Sample Source: IBR Open Mkt Purchase

Time mins	Motor Status	Inject Status	Port	Particles/5ft3 at: (in microns)						
				0.3-0.4	0.4-0.5	0.5-0.6	0.6-0.8	0.8-1	1-2.5	2.5-3.75
5	off	off	Downstream	75	6	15	10	16	2	0
5	off	off	Downstream	61	16	13	10	13	3	0
5	off	off	Downstream	78	16	12	12	16	2	0
5	on	off	Downstream	55,288	45,748	14,408	7,312	3,304	4,880	960
5	on	off	Upstream	80	16	9	14	9	2	1
5	on	off	Downstream	56,188	46,512	14,452	7,080	3,480	4,912	888
5	on	off	Upstream	73	16	10	11	14	2	0
5	on	off	Downstream	55,660	45,912	14,248	7,124	3,344	4,848	964
5	on	off	Upstream	73	20	5	15	10	1	0
5	on	on	Upstream	9,115,380	7,127,280	1,556,190	477,180	127,950	60,090	1,470
5	on	on	Downstream	161,200	74,948	15,588	7,036	3,432	4,460	872
5	on	on	Upstream	9,119,430	6,922,020	1,446,510	435,990	110,970	54,630	1,530
5	on	on	Downstream	149,248	72,100	15,416	7,644	3,244	4,564	924
5	on	on	Upstream	9,108,810	7,055,640	1,508,700	455,460	116,850	58,230	1,500
5	on	on	Downstream	153,736	72,940	15,544	7,232	3,476	4,472	888
Total upstream				27,343,620	21,104,940	4,511,400	1,368,630	355,770	172,950	4,500
Total downstream				464,184	219,988	46,548	21,912	10,152	13,496	2,684
Net downstream				297,048	81,816	3,440	396	24	-1,144	-128
Gross Efficiency				98.30	98.96	98.97	98.40	97.15	92.20	40.36
Net Efficiency				98.91	99.61	99.92	99.97	99.99	>99.99	>99.9

Notice: These data relate only to the samples tested. This report may be copied only in its entirety.
 pg 2/3 Performed By: DN Data Location: DN69

Reviewed By: _____
 Susan H Goldsmith, Director of Technical Services
 IBR 11599 Morrissey Rd Grass Lake MI USA 49240 Voice 517-522-8453

TEST REPORT

Performed for: Miele
 IBR JN: 10222-I
 Date: March 14, 2009

Location: Princeton, NJ
 Contact: N. Gast

Test Method: Vacuum Cleaner Fractional Efficiency per ASTM F1977-04
 Flow Rate: 47 SCFM Sheath Air Flow Rate: 141 SCFM
 Conditions: Temp. 71F, Relative Humidity 47%, Barometric Pressure 721 mm Hg
 Instrumentation: HR 5230, S/N 041002003, Cal due May-09
 Contaminant: KCl Neutralized

Description of Sample: Simplicity Synergy Premium Upright Vacuum Cleaner TEST-3
 Model: G9.2 S/N: 8D0002221 Filters: As installed by manufacturer
 Date Samples Received: February 13, 2009 Sample Source: IBR Open Mkt Purchase

Time mins	Motor Status	Inject Status	Port	Particles/5ft3 at: (in microns)						
				0.3-0.4	0.4-0.5	0.5-0.6	0.6-0.8	0.8-1	1-2.5	2.5-3.75
5	off	off	Downstream	16	8	8	15	4	1	0
5	off	off	Downstream	26	12	23	33	6	0	0
5	off	off	Downstream	16	8	15	11	5	0	0
5	on	off	Downstream	54,124	44,808	13,712	7,212	3,564	4,396	944
5	on	off	Upstream	12	3	1	0	0	0	0
5	on	off	Downstream	53,144	44,344	13,784	6,832	3,268	4,312	988
5	on	off	Upstream	4	1	0	0	0	0	0
5	on	off	Downstream	53,868	44,704	13,600	7,064	3,420	4,372	924
5	on	off	Upstream	2	1	0	0	0	0	0
5	on	on	Upstream	8,487,390	5,806,950	1,195,050	337,710	86,190	41,610	1,170
5	on	on	Downstream	145,344	67,536	14,252	7,280	3,180	4,308	892
5	on	on	Upstream	8,353,440	5,657,340	1,057,470	298,950	78,330	35,970	1,080
5	on	on	Downstream	143,376	68,644	13,956	6,900	2,840	4,180	812
5	on	on	Upstream	8,435,100	5,880,420	1,122,660	317,850	85,650	39,120	1,110
5	on	on	Downstream	143,480	67,212	14,468	7,128	3,136	4,340	988
			Total upstream	25,275,930	17,344,710	3,375,180	954,510	250,170	116,700	3,360
			Total downstream	432,200	203,392	42,676	21,308	9,156	12,828	2,692
			Net downstream	271,064	69,536	1,580	200	-1,096	-252	-164
			Gross Efficiency	98.29	98.83	98.74	97.77	96.34	89.01	19.88
			Net Efficiency	98.93	99.60	99.95	99.98	>99.99	>99.99	>99.9

Notice: These data relate only to the samples tested. This report may be copied only in its entirety.
 pg 3/3 Performed By: DN Data Location: DN69

Reviewed By: _____
 Susan H Goldsmith, Director of Technical Services
 IBR 11599 Morrissey Rd Grass Lake MI USA 49240 Voice 517-522-8453