

# VY AIR EMISSIONS RECORDKEEPING-2001

## House Heating Boilers

Period	Gallons Used	% Sulfur	lb/kgal, S	lb/kgal, Off	Total Tons
1/1-1/31/2001	50000	0.0689	9.92	27.29	0.93
2/1-2/29/2001	50000	0.0689	9.92	27.29	0.93
2/23/2001	4000	0.041	5.90	27.29	0.65
3/1-3/31/2001	39000	0.09324	13.43	27.29	0.79
3/1-3/31/2001	7500	0.10216	14.71	27.29	0.82
3/1-3/31/2001	4500	0.12	17.28	27.29	0.17
4/1-4/30/2001	21000	0.12	17.28	27.29	0.47
5/1-5/31/2001	6700	0.12	17.28	27.29	0.15
6/1-6/30/2001	0	0	0.00	27.29	0.00
7/1-7/31/2001	0	0	0.00	27.29	0.00
8/1-8/31/2001	0	0	0.00	27.29	0.00
9/1-9/30/2001	0	0	0.00	27.29	0.00
10/1-10/31/2001	14501	0.1	14.40	27.29	0.30
11/1-11/30/2001	34000	0.1	14.40	27.29	0.71
12/1-12/31/2001	34500	0.05	7.20	27.29	0.59
12/1-12/31/2001	5500	0.0292	4.20	27.29	0.09
Totals	271201				6.60
Average		0.06			

## Waste Oil Burner

Period	Gallons Used	% Sulfur	lb/kgal, S	lb/kgal, Off	Total Tons
2/1-2/28/2001	399.7	1.31	188.64	60.43	0.05
7/3/2001	1.62	1.31	188.64	60.43	0.0002
11/1-11/30/2001	1431.26	1.31	188.64	60.43	0.18
12/1-12/31/2001	1431.26	1.31	188.64	60.43	0.18
			0	60.43	0.00
			0	60.43	0.00
			0	60.43	0.00
			0	60.43	0.00
Totals	3263.84				0.41

VYAPF 0150.01 1/1/2001 Emergency Desiel Tank Vol= 38,500 gal

1/25/2001 Delivery of 4000 gal

2/1/2001 Delivery of 4000 gal

2/22/2001 Delivery of 7500 gal

2/23/2001 Delivery of 3500 gal

2/23/2001 Delivery of 7500 gal

9/4/2001 Delivery of 18000 gal

VYAPF 0150.01 12/31/2001 Emergency Desiel Tank Vol= 52,500 gal

## Grand Total Tons

7.01

HHB Emission factors from EPA AP-42 Section 1.3

	lb/1000 gal
SO <sub>2</sub>	142*%S
SO <sub>3</sub>	2*%S
NO <sub>x</sub>	20
Part.	2
CO	5
VOC	0.252
Trace Metals	0.038

Note: Started using 70/30 #2/Kerosene December 2000

Waste oil Emission factors from EPA AP-42 Section 1.11

	lb/1000 gal
SO <sub>x</sub>	107*%S
NO <sub>x</sub>	16
Part.	41.6
CO	2.1
	0.1
Trace Metals	0.63

## OPT OUT PROVISION DIESEL HOUR METER READINGS

JOHN DEERE	Date	A EDG	Date	B EDG	Date
1042.1	12/11/2000	3743.1	12/18/2000	409.5	12/19/2000
1043.4	1/10/2001	3747.6	1/24/2001	416.4	1/22/2001
1048.6	2/14/2001	3758.9	2/21/2001	425.1	2/22/2001
1050	3/14/2001	3763.4	3/16/2001	429.6	3/17/2001
1051.3	4/11/2001	3768	4/26/2001	434.2	4/23/2001
1192.5	6/7/2001	3782.4	5/23/2001	443.7	5/18/2001
1194.4	6/28/2001	3786.9	6/24/2001	448.3	6/24/2001
1195.7	7/11/2001	3791.4	7/23/2001	452.8	7/24/2001
1197.1	8/15/2001	3795.8	8/20/2001	458.9	8/21/2001
1199.9	9/24/2001	3800.5	9/24/2001	463.5	9/25/2001
1201.3	10/11/2001	3826.5	10/28/2001	468.1	10/22/2001
1202.7	11/9/2001	3830.9	11/19/2001	472.5	11/19/2001
1205.3	12/13/2001	3835.9	12/26/2001	477	12/26/2001
163.2		92.8		67.5	YR TOT



## VY AIR EMISSIONS RECORDKEEPING-2002

### House Heating Boilers

Period	Gallons Used	% Sulfur	lb/kgal, S	lb/kgal, Ott	Total Tons
1/1-1/31/2002*	53303	0.15	21.6	27.29	1.30
2/1-2/29/2002*	43000	0.15	21.6	27.29	1.05
3/1-3/31/2002*	14500	0.15	21.6	27.29	0.35
3/1-3/31/2002**	25700	0.20	28.8	27.29	0.41
3/1-3/31/2002	6600	0.27	38.88	27.29	0.85
4/1-4/30/2002	24400	0.27	38.88	27.29	0.81
5/1-5/31/2002	18600	0.27	38.88	27.29	0.62
6/1-6/30/2002 (LS)	2800	0.1	14.4	27.29	0.06
7/1-7/31/2002	0		0	27.29	0.00
8/1-8/31/2002	0		0	27.29	0.00
9/1-9/30/2002	0		0	27.29	0.00
10/1-10/31/2002	20979	0.23	33.12	27.29	0.63
11/1-11/30/2002	46124	0.23	33.12	27.29	1.39
12/4/02 & 12/27/02**	12804	0.20	28.8	27.29	0.36
12/1-12/31/2002	43852	0.23	33.12	27.29	1.32
Totals	312662				9.16

Total with average %Sulfur	312662	0.20	23.52	27.29	7.94
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### Used Oil Burner

Period	Gallons Used	% Sulfur	lb/kgal, S	lb/kgal, Ott	Total Tons
01/01/02-01/31/02	325.2	1.31	188.64	60.43	0.04
11/01-11/30/2002	406.2	1.31	188.64	60.43	0.05
12/01-12/31/2002	409.2	1.31	188.64	60.43	0.05
			0	60.43	0.00
			0	60.43	0.00
			0	60.43	0.00
Totals	1140.6				0.14

VYAPF 0150.01 1/1/2002 Emergency Diesel Tank Vol= 52,500 gal

6/4/2002 Delivery of 7500 gallons

6/10/2002 Delivery of 9500 gallons

VYAPF 0150.01 12/31/2002 Emergency Diesel Tank Volume= 49,250

### Grand Total Tons

8.08

HHB Emission factors from EPA AP-42 Section 1.3

	lb/1000 gal
SO2	142*%S
SO3	2*%S
NOx	20
Part.	2
CO	5
VOC	0.252
Trace Metals	0.038

(LS) indicates Low sulfur diesel was delivered

(\*) indicates a 50/50 #2/Kerosene mix was delivered

(\*\*) indicates a 70/30 #2/Kerosene mix was delivered

Waste oil Emission factors from EPA AP-42 Section 1.11

	lb/1000 gal
SOx	107*%S
NOx	16
Part.	41.6
CO	2.1
	0.1
Trace Metals	0.63

OPT OUT PROVISION DIESEL HOUR METER READINGS

JOHN DEERE	Date	A EDG	Date	B EDG	Date
1205.3	12/13/2001	3835.9	12/26/2001	477	12/26/2001
1206.5	1/16/2002	3840.5	1/21/2002	481.7	1/22/2002
1207.9	2/13/2002	3845.1	2/20/2002	486.4	2/22/2002
1209.2	3/12/2002	3849.5	3/16/2002	491.3	3/22/2002
1211.2	4/10/2002	3852.2	4/18/2002	493.8	4/18/2002
1212.5	5/15/2002	3854.6	5/18/2002	496.4	5/17/2002
1214.4	6/11/2002	3857.2	6/21/2002	498.9	6/21/2002
1217.1	7/10/2002	3861.4	7/25/2002	510.2	7/24/2002
1218.5	8/14/2002	3870.3	8/18/2002	518.9	8/20/2002
1220.3	9/11/2002	3872.8	9/24/2002	523.1	9/23/2002
1221.7	10/31/2002	3881.3	10/21/2002	528.2	10/21/2002
1222.9	11/14/2002	3883.8	11/12/2002	530.8	11/12/2002
1224.2	12/11/2002	3886.3	12/18/2002	535.0	12/18/2002
18.9		50.4		56.3	YR TOT



## VY AIR EMISSIONS RECORDKEEPING-2003

### House Heating Boilers

Period	Gallons Used	% Sulfur	lb/kgal, S	lb/kgal, Otr	Total Tons
1/1-1/31/2003**	55517	0.03	4.32	27.29	0.88
1/17/2003	6500	0.04	5.76	27.29	0.11
2/3/2003	6750	0.04	5.76	27.29	0.11
02/01/03-02/28/03**	43500	0.03	4.32	27.29	0.69
3/1-3/31/2003**	40900	0.03	4.32	27.29	0.69
3/ 8&31/2003	15007	0.04	5.76	27.29	0.68
4/1-4/30/2003	33800	0.04	5.76	27.29	0.56
5/1-5/31/2003	12500	0.04	5.76	27.29	0.21
6/1-6/30/2003	0		0	27.29	0.00
7/1-7/31/2003	0		0	27.29	0.00
8/1-8/31/2003	0		0	27.29	0.00
9/1-9/30/2003	0		0	27.29	0.00
10/1-10/31/2003	25402	0.256	36.864	27.29	0.81
11/1-11/30/2003	33904	0.261	37.584	27.29	1.10
12/1-12/31/2003	51411	0.268	38.592	27.29	1.69
<b>Totals</b>	<b>325191</b>				<b>7.52</b>
<b>Average</b>		<b>0.10</b>	<b>10.32</b>	<b>27.29</b>	

### Waste Oil Burners

Period	Gallons Used	% Sulfur	lb/kgal, S	lb/kgal, Otr	Total Tons
2/8-25/03	421	1.31	140.17	60.43	0.04
2/10/03-3/21/03	686	1.31	188.64	60.43	0.09
3/13-28/03	379	1.31	188.64	60.43	0.05
10/20/03-12/31/03	1106	1.31	188.64	60.43	0.14
<b>Totals</b>	<b>2592</b>				<b>0.32</b>

VYAPF 0150.01 1/1/2003 Emergency Diesel Tank Vol= 49,000 gal

5/7/2003 Delivery of 17000 gallons

VYAPF 0150.01 12/31/2003 Emergency Diesel Tank Volume= 53,000

53000-49000+17000

### Grand Total Tons

7.84

HHB Emission factors from EPA AP-42 Section 1.3

	lb/1000 gal
SO2	142**%S
SO3	2**%S
NOx	20
Part.	2
CO	5
VOC	0.252
Trace Metals	0.038

(\*) indicates a 50/50 #2/Kerosene mix was delivered

(\*\*) indicates a 70/30 #2/Kerosene mix was delivered

Waste oil Emission factors from EPA AP-42 Section 1.11

	lb/1000 gal
SOx	107**%S
NOx	16
Part.	41.6
CO	2.1
	0.1
Trace Metals	0.63

### OPT OUT PROVISION DIESEL HOUR METER READINGS

JOHN DEERE	Date	A EDG	Date	B EDG	Date
1224.2	12/11/2002	3886.3	12/18/2002	533.3	12/18/2002
1225.4	1/15/2003	3888.8	1/16/2003	535.8	1/16/2003
1226.7	2/13/2003	3891.6	2/20/2003	538.6	2/20/2003
1227.9	3/12/2003	3895.4	3/28/2003	541.3	3/23/2003
1229.2	4/16/2003	3898	4/21/2003	543.9	4/22/2003
1230.6	5/14/2003	3900.6	5/20/2003	546.6	5/20/2003
1231.8	6/11/2003	3903.5	6/23/2003	551	6/25/2003
1233.2	7/16/2003	3906.2	7/21/2003	553.7	7/22/2003
1234.5	8/14/2003	3909.4	8/18/2003	556.5	8/19/2003
1235.9	9/10/2003	3912	9/21/2003	561.8	9/25/2003
1237.4	10/15/2003	3914.7	10/20/2003	564.3	10/21/2003
1238.7	11/12/2003	3917.3	11/23/2003	566.8	11/23/2003
1240	12/10/2003	3920.1	12/18/2003	569.5	12/18/2003
15.8		33.8		36.2	YR TOT



## VY AIR EMISSIONS RECORDKEEPING-2004

### House Heating Boilers

Period	Gallons Used	% Sulfur	lb/kgal, Sulfur	lb/kgal, Other	Total Tons
1/1-1/31/2004	13506	0.167	24.048	27.29	0.35
01/10-31/2004**	50509	0.121	17.424	27.29	1.13
02/01-20/2004**	35300	0.118	16.992	27.29	0.78
2/26/2004	7500	0.163	23.472	27.29	0.19
03/01-31/2004	39301	0.139	20.016	27.29	0.18
04/01-30/2004	26301	0.264	38.016	27.29	1.28
05/01-30/2004	4501	0.166	23.904	27.29	0.12
06/01-30/2004	0		0	27.29	0.00
07/01-31/2004	0		0	27.29	0.00
08/01-31/2004	0		0	27.29	0.00
09/01-30/2004	3000	0.166	23.904	27.29	0.08
10/01-31/2004	20106	0.196	28.224	27.29	0.56
11/01-30/2004	33,805	0.175	25.2	27.29	0.89
12/01-31/2004	53,014	0.243	34.992	27.29	1.65

<b>Total</b>	<b>286,843</b>				<b>7.20</b>
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### Waste Oil Burner

Period	Gallons Used	% Sulfur	lb/kgal, S	lb/kgal, Other	Total Tons
1/1/04 - 1/31/04	114.9	1.31	188.64	60.43	0.01
2/6/04 - 2/27/04	366.2	1.31	188.64	60.43	0.05
11/10/04 - 12/28/04	1,419.66	1.31	188.64	60.43	0.18

<b>Totals</b>	<b>1,900.76</b>				<b>0.24</b>
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VYAPF 0150.01 1/1/2004 Emergency Diesel Tank Volume 53,000  
VYAPF 0150.01 12/31/2004 Emergency Diesel Tank Volume 52,000

Fuel Delivery Dates	Gallons delivered
7/1/2004	19,002

Total estimated fuel consumption for 2004 20,002

**Grand Total Tons**  
**7.43**

HHB Emission factors from EPA AP-42 Section 1.3

	lb/1000 gal
SO2	142*%S
SO3	2*%S
NOx	20
Part.	2
CO	5
VOC	0.252
Trace Metals	0.038

(\*) indicates a 50/50 #2/Kerosene mix was delivered

(\*\*) indicates a 70/30 #2/Kerosene mix was delivered

Waste oil Emission factors from EPA AP-42 Section 1.11

	lb/1000 gal
SOx	107*%S
NOx	16
Part.	41.6
CO	2.1
	0.1
Trace Metals	0.63

### OPT OUT PROVISION DIESEL HOUR METER READINGS

JDD	Date	A EDG	Date	B EDG	Date
1240	12/10/2003	3920.1	12/18/2003	569.5	12/18/2003
1241.3	1/14/2004	3922.9	1/19/2004	571.9	1/21/2004
1242.7	2/11/2004	3931.8	2/17/2004	580.8	2/19/2004
1244.1	3/10/2004	3934.2	3/23/2004	583.4	3/22/2004
1245.4	4/17/2004	3941.7	4/28/2004	590.6	4/27/2004
1246.7	5/12/2004	3944.3	5/23/2004	593.1	5/23/2004
1249.9	6/16/2004	3946.9	6/21/2004	595.8	6/22/2004
1253.8	7/23/2004	3949.5	7/17/2004	598.2	7/17/2004
1255.1	8/11/2004	3952	8/21/2004	602.4	8/21/2004
1256	9/15/2004	3945	9/24/2004	604.9	9/19/2004
1258	10/13/2004	3958	10/12/2004	607.4	10/13/2004
1259	11/14/2004	3960	11/14/2004	610	11/15/2004
1260	12/15/2004	3962.6	12/19/2004	613	12/19/2004
20		42.5		43.5	YR TOT



## VY AIR EMISSIONS RECORDKEEPING-2005

### House Heating Boilers

Period	Gallons Used	% Sulfur	lb/kgal, Sulfur	lb/kgal, Other	Total Tons
1/1/05 - 1/31/05	48115	0.176	25.344	27.29	1.27
2/1/05 - 2/28/05	48407	0.194	27.936	27.29	1.34
3/1/05 - 3/31/05	41514	0.243	34.992	27.29	1.29
4/1/05 - 4/30/05	19200	0.243	34.992	27.29	0.60
5/1/05 - 5/31/05	19301	0.243	34.992	27.29	0.60
6/1/05 - 6/30/05	0	0.243	34.992	27.29	0.00
7/1/05 - 7/30/05	0	0.197	28.368	27.29	0.00
8/1/05 - 8/31/05	0	0.040	5.76	27.29	0.00
9/1/05 - 9/30/05	0	0.237	34.128	27.29	0.00
10/1/05 - 10/31/05	13302	0.270	38.88	27.29	0.44
11/1/05 - 11/30/05	32805	0.275	39.6	27.29	1.10
12/1/05 - 12/31/05	61709	0.277	39.888	27.29	2.07
average		<b>0.220</b>			

<b>Total</b>	<b>284,353</b>				<b>8.70</b>
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### Waste Oil Burner

Period	Gallons Used	% Sulfur	lb/kgal, S	lb/kgal, Other	Total Tons
2/12/2005-2/28/2005	2952.26	1.31	188.64	60.43	0.37
6/15/2005	1.36	1.31	188.64	44.43	0.00

<b>Totals</b>	<b>2,953.62</b>				<b>0.37</b>
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VYAPF 0150.01 1/1/2005 Emergency Diesel Tank Volume 53,000  
VYAPF 0150.01 12/31/2005 Emergency Diesel Tank Volume 55,979

Fuel Delivery Dates	Gallons delivered
6/29/2005	7,502
11/30/2005	15,001

Total estimated fuel consumption for 2005 19,524 gallons

**Grand Total Tons**  
**9.07**

HHB Emission factors from EPA AP-42 Section 1.3

	lb/1000 gal
SO2	142**%S
SO3	2**%S
NOx	20
Part.	2
CO	5
VOC	0.252
Trace Metals	0.038

(\*) indicates a 50/50 #2/Kerosene mix was delivered  
(\*\*) indicates a 70/30 #2/Kerosene mix was delivered

Waste oil Emission factors from EPA AP-42 Section 1.11

	lb/1000 gal
SOx	107**%S
NOx	16
Part.	41.6
CO	2.1
	0.1
Trace Metals	0.63

### OPT OUT PROVISION DIESEL HOUR METER READINGS

JDD	Date	A EDG	Date	B EDG	Date
1260.4	12/15/2004	3962.6	12/19/2004	613	12/19/2004
1261.7	1/12/2005	3965.15	1/17/2005	616.7	1/17/2005
1263.1	2/15/2005	3968.1	2/23/2005	619.3	2/23/2005
1265.2	3/16/2005	3973	3/21/2005	621.3	3/26/2005
1266.6	4/13/2005	3975.8	4/18/2005	626.6	4/19/2005
1268.3	5/11/2005	3978.4	5/22/2005	629.2	5/22/2005
1269.8	6/7/2005	3981.2	6/19/2005	631.9	6/19/2005
1271.2	7/13/2005	3984.1	7/18/2005	634.2	7/18/2005
1272.6	8/10/2005	3994.9	8/22/2005	644.8	8/24/2005
1273.9	9/14/2005	3997.6	9/19/2005	647.3	9/20/2005
1275.4	10/12/2005	3999.4	10/19/2005	650.1	10/19/2005
1286.2	11/16/2005	4007.3	11/20/2005	654.9	11/20/2005
1290.4	12/14/2005	4010.2	12/18/2005	659.5	12/21/2005
30		47.6		46.5	YR TOT