

APPROVAL AND CERTIFICATION CENTER
DIESEL ENGINES CERTIFIED UNDER PART 36

<u>APPROVAL NUMBER</u>	<u>DATE ISSUED</u>	<u>ENGINE MANUFACTURER</u>	<u>ENGINE MODEL #</u>	<u>ENGINE RATING(S) AT 1000 FT.-ELEV.</u>	<u>VENTILATION (CFM)</u>
31/D1-1 RETIRED	07/19/65	HUPP CORP HERCULES ENGINE DIV.	D00D	53 bhp @ 2600 RPM	6,500
				50 bhp @ 2400 RPM	5,900
31/D3 RETIRED	03/23/64	HUPP CORP HERCULES ENGINE DIV.	DH3000	82 bhp @ 3000 RPM	13,000
				79 bhp @ 2800 RPM	13,000
				75 bhp @ 2600 RPM	13,000
				70 bhp @ 2400 RPM	13,000
				66 bhp @ 2200 RPM	13,000
31/D5-5 RETIRED	09/25/68	HUPP CORP HERCULES ENGINE DIV.	DH30 00-F HORI- ZONTAL	86 bhp @ 3000 RPM	10,000
				83 bhp @ 2800 RPM	10,000
				77 bhp @ 2600 RPM	10,000
				76 bhp @ 2400 RPM	10,000
				72 bhp @ 2200 RPM	8,700
31/D7 RETIRED	08/21/67	DEUTZ DIESEL	A8L 714	156 bhp @ 2200 RPM	24,000
				154 bhp @ 2150 RPM	22,000
				152 bhp @ 2100 RPM	21,000
				147 bhp @ 2000 RPM	19,000
				135 bhp @ 1800 RPM	17,000
31/D12-4 RETIRED	04/27/81	CATERPILLAR TRACTOR CO.	3306 PCNA	146 bhp @ 2200 RPM	17,000
				138 bhp @ 2000 RPM	17,000
				127 bhp @ 1800 RPM	17,000
31/D15-1 RETIRED	05/03/71	CATERPILLAR TRACTOR CO.	3160	180 bhp @ 2800 RPM	48,000
				175 bhp @ 2600 RPM	48,000
				169 bhp @ 2400 RPM	48,000
				158 bhp @ 2200 RPM	44,000

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				149 bhp @ 2000 RPM	42,000
				137 bhp @ 1800 RPM	34,000
				126 bhp @ 1600 RPM	33,000
31/D16-2 RETIRED	01/21/71	FORD MOTOR COMPANY	401 CID SERIES 8000	91 bhp @ 2300 RPM 88 bhp @ 2200 RPM 82 bhp @ 2000 RPM 76 bhp @ 1800 RPM	23,000 23,000 23,000 23,000
31/D18 RETIRED	02/10/71	FORD MOTOR COMPANY	201 CID SERIES 4000	45 bhp @ 2200 RPM 40.5 bhp @ 2000 RPM 39 bhp @ 1800 RPM	13,400 12,000 12,000
31/D21 RETIRED	08/23/71	CUMMINS ENGINE CO.	V-504	142 bhp @ 3300 RPM 142 bhp @ 3100 RPM 138 bhp @ 2900 RPM 133 bhp @ 2700 RPM 130 bhp @ 2500 RPM 122 bhp @ 2300 RPM 111 bhp @ 2000 RPM 101 bhp @ 1800 RPM 90 bhp @ 1600 RPM	48,000 48,000 46,000 42,000 41,000 39,000 36,000 34,000 31,000
31/D23-3 RETIRED	05/13/74	CATERPILLAR TRACTOR CO.	D330 C-NA	82 bhp @ 2200 RPM 81 bhp @ 2000 RPM 76 bhp @ 1800 RPM 73 bhp @ 1600 RPM	12,000 11,000 10,000 10,000
31/D26-1 RETIRED	05/13/74	CATERPILLAR TRACTOR CO.	D330 C-NA	94 bhp @ 2200 RPM 88 bhp @ 2000 RPM	11,500 11,000

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			3304	85 bhp @ 1800 RPM 78 bhp @ 1600 RPM	9,000 8,000
31/D28-1 RETIRED	05/13/74	CATERPILLAR TRACTOR CO.	3304	95 bhp @ 2200 RPM 91 bhp @ 2000 RPM 85 bhp @ 1800 RPM	10,500 10,000 9,000
31/D30-1 RETIRED	07/03/73	PERKINS ENGINES,INC	4.236	55 bhp @ 2400 RPM 51 bhp @ 2200 RPM 48 bhp @ 2000 RPM 46 bhp @ 1800 RPM 43 bhp @ 1600 RPM	20,000 19,000 16,000 14,000 14,000
31/D32-2	01/14/82	PERKINS ENGINES,INC	4.108	35 bhp @ 3000 RPM 33 bhp @ 2800 RPM 30 bhp @ 2600 RPM 28 bhp @ 2400 RPM 26 bhp @ 2200 RPM 24 bhp @ 2000 RPM 21 bhp @ 1800 RPM	3,400 3,100 2,800 2,600 2,400 2,200 1,800
31/D34-1 RETIRED	01/13/74	CATERPILLAR TRACTOR CO.	3304	96 bhp @ 2200 RPM 93 bhp @ 2000 RPM 86 bhp @ 1800 RPM 79 bhp @ 1600 RPM	12,000 10,500 9,000 8,000
31/D38	04/08/75	PERKINS ENGINES,INC	4.154	62 bhp @ 3000 RPM 55 bhp @ 2600 RPM	6,000 4,800

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				52 bhp @ 2500 RPM	4,500
				50 bhp @ 2300 RPM	4,500
				46 bhp @ 2000 RPM	3,600
				41 bhp @ 1800 RPM	3,500
31/D39 RETIRED	07/07/75	CATERPILLAR TRACTOR CO.	3208	173 bhp @ 2800 RPM 169 bhp @ 2500 RPM 162 bhp @ 2300 RPM 139 bhp @ 1800 RPM	32,200 31,400 29,600 26,200
31/D41 RETIRED	04/26/76	ELMAC CORP (FORD MOTOR COMPANY)	401 CID	105 bhp @ 2300 RPM 94 bhp @ 2000 RPM 78 bhp @ 1600 RPM	14,600 14,600 14,600
31/D42 RETIRED	04/28/76	CATERPILLAR TRACTOR CO.	3304 LAYDOWN	97 bhp @ 2200 RPM	12,000
31/D44 RETIRED	05/28/76	MOTOREN-WERKE HANNHEIM	F4M 212	65 bhp @ 2300 RPM	5,600
31/D45 RETIRED	05/28/76	MOTOREN-WERKE HANNHEIM	F6M 212	100 bhp @ 2300 RPM	8,700
31/D46-1 RETIRED	01/14/82	CATERPILLAR TRACTOR CO. COMPRESSION	3304 STANDARD	100 bhp @ 2200 RPM 95 bhp @ 2000 RPM 87 bhp @ 1800 RPM	13,000 11,500 10,500

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31/D56-1	08/25/87	MWM DIESEL	D916-4	65 bhp @ 2300 RPM	5,600
31/D57-4	08/25/87	MWM DIESEL	D916-4	94 bhp @ 2300 RPM	8,700
31/D58-4	07/07/89	CATERPILLAR TRACTOR CO. COMPRESSION	3306 PCNA HIGH	150 bhp @ 2200 RPM 146 bhp @ 2100 RPM 142 bhp @ 2000 RPM 130 bhp @ 1800 RPM	17,000 16,500 16,000 16,000
31/D59	12/06/85	ISUZU DIESEL (Out of Production)	QD145 -306	103 bhp @ 2800 RPM	14,000
31/D60 RETIRED	01/15/82	CATERPILLAR TRACTOR CO.	3406 DITA	350 bhp @ 2100 RPM 325 bhp @ 2100 RPM 290 bhp @ 2100 RPM 350 bhp @ 2000 RPM 345 bhp @ 1900 RPM 333 bhp @ 1800 RPM 275 bhp @ 1800 RPM	73,000 70,000 63,000 72,000 71,000 69,000 60,000
31/D61-1	03/13/85	ISUZU DIESEL OF NA (Out of Production)	QD60	52 SAE bhp @ 3000 RPM 43 SAE bhp @ 2500 RPM	5,500 4,500
31/D62-2	09/21/84	CATERPILLAR TRACTOR CO.	3304 PCNA HIGH	100 bhp @ 2200 RPM 95 bhp @ 2000 RPM 87 bhp @ 1800 RPM	11,500 11,000 11,000

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		COMPRESSION			
31/D68-1 RETIRED 31/D68	02/08/84	ISUZU DIESEL OF NA (Out of Production)	QD145 -306	115 bhp @ 2800 RPM 108 bhp @ 2400 RPM 103 bhp @ 2800 RPM	15,000 15,000 14,000
31/D71	12/15/82	ISUZU DIESEL OF NA (Out of Production)	QD100 -306	70 bhp @ 2800 RPM 66 bhp @ 2400 RPM	9,500 9,500
31/D78 RETIRED	07/11/85	CATERPILLAR TRACTOR CO.	3306 PCTA	240 bhp @ 2200 RPM 225 bhp @ 2200 RPM 200 bhp @ 2200 RPM	26,000 26,000 26,000
31/D88	02/06/85	CATERPILLAR TRACTOR CO. HORIZONTAL	3304 PCNA	90 bhp @ 2200 RPM	13,500
31/D90-1	11/25/85	JOHN DEERE PRODUCT ENG.	4276 DF	66 bhp @ 2300 RPM	10,500
31/D103-1	08/25/87	MWM DIESEL	D916-2	31 bhp @ 2300 RPM	3,000
31/D104-1	08/25/87	MWM DIESEL	D916-3	47 bhp @ 2300 RPM	4,500
31/D112	03/09/90	FORD NEW HOLLAND, INC.	BSD6 66M36	88 HP @ 2300 RPM	21,000

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31/D115	11/07/91	LISTER PETTER	LPU4G	31.3 HP @ 3200 RPM	4,500
				30.3 HP @ 4000 RPM	4,000
				29.9 HP @ 3500 RPM	3,500
				27.7 HP @ 3000 RPM	3,000
				25.4 HP @ 2500 RPM	2,500
				22.5 HP @ 2000 RPM	2,500

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