

Used bulldozer Multi-criteria Analysis Framework – Scoring guide and weightings

Criteria	Scoring guide	Weighting
C1 - Operating Hours	The less hours a machine has the better. The equivalent of this in purchasing a passenger vehicle is kms travelled. Operating hours is a very important indicator of wear and tear on the machine. The nature of the hours and the type of work the machine has done are also an important factor, this is picked up under condition.	40%
C2 - Weight	This criteria assumes that the heavier the item the better, (but I assume it should therefore have a corresponding horsepower). The original specification include a weight range	5%
C3 - Gross HP	Power - same approach as for Hours	5%
C4 - Equipment	General criteria that picks up the two essential items, the ripper and the cab protection. Suggest you assign a "5" for each equipment type. If the dozer has both a ripper and cab protection it gets a "10"	10%
C5 - Service History	Vendor can provide documented history on machine and evidence of servicing and major works. In case of CAT look for a SIMMS report as well.	15%
C6 - General condition	Criteria picks up U/C condition as well as general condition (lights, ventilation, external non chassis items etc.)	25%
		100%

Used Bulldozer – Scoping List for MCA

Bulldozer ID	Make	Model	Year	Hours	Gross HP	Weight (kg)	%U/C	Canopy	Ripper	Location	\$ Price (ex GST)	\$ Freight	\$ other	\$TOTAL
CAT-DSRXLI-2005	Caterpillar	D6RXL II	2005	9700	189	19000	75	No	Yes	Shepparton	\$ 165,000	\$ 15,500		\$ 180,500
CAT-D6RLGP-1998	Caterpillar	D6RLGP	1998	9050	199	20500	80	YES	YES	Traralgon	\$ 132,000	\$ 10,500		\$ 142,500
CAT-D6H-1992-A	Caterpillar	D6H	1992	10900	165	19500	80	YES	Yes	Wodonga	\$ 115,000	\$ 13,500		\$ 128,500
CAT-DSH-1992-B	Caterpillar	D6H	1992	10000	165	19500	80	NO	Yes	Dubbo	\$ 123,000	\$ 20,000		\$ 143,000
CAT-D6H-1990	Caterpillar	D6H	1990	12900	165	19500	80	No	Yes	USA	\$ 118,000	\$ 4,900		\$ 122,900
CAT-D6R-1996	Caterpillar	D6R	1996	14000	179	19800	90	No	Yes	Melbourne	\$ 135,000	\$ 12,500		\$ 147,500
CAT-DSGII-2008-A	Caterpillar	D6G II	2008	6570	175	18480	90	No	Yes	Singapore	\$ 150,000	\$ 2,500		\$ 152,500
CAT-D6GII-2009-B	Caterpillar	D6G II	2008	6570	175	18480	90	YES	Yes	Singapore	\$ 171,800	\$ 2,500		\$ 174,300

Used bulldozer – Scorings

Machine	\$ Cost	Weighted score (100)	BC ratio	C1 - Operating Hours	40%	C2 - Weight	5%	C3 - Gross HP	5%	C4 - Equip.	10%	C5 - Service History	15%	C6 - General Condition	25%	Absolute Score (60)
CAT-DSRXLII-2005	\$ 180,500	71.5	3.96	8	32	8	4	8	4	5	5	6	9	7	17.5	35
CAT-D6RLGP-1998	\$ 142,500	84	5.89	8	32	9	4.5	9	4.5	10	10	7	10.5	9	22.5	43
CAT-D6H-1992-A	\$ 128,500	73.5	5.72	7	28	8	4	7	3.5	10	10	7	10.5	7	17.5	39
CAT-DSH-1992-B	\$ 143,000	64.5	4.51	6	24	8	4	7	3.5	5	5	7	10.5	7	17.5	33
CAT-D6H-1990	\$ 122,900	64.5	5.25	6	24	8	4	7	3.5	5	5	7	10.5	7	17.5	40
CAT-D6R-1996	\$ 147,500	60	4.07	5	20	9	4.5	8	4	5	5	6	9	7	17.5	40
CAT-DSGII-2008-A	\$ 152,500	76	4.98	8	32	7	3.5	8	4	5	5	6	9	9	22.5	43
CAT-D6GII-2009-B	\$ 174,300	81	4.65	8	32	7	3.5	8	4	10	10	6	9	9	22.5	48



