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RISK ASSESSMENT

For

Bobcat Skid Steer Loader

Series F & G (incl. S & A Models)





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Applicability

Standards referenced in the preparation of this document

Risk Assessment sheets

APPLICABILITY

The following Risk Assessment document is applicable to the following models of Bobcat Skid Steer Loaders:

453F, 463F 751F, 751G 753F, 753G, S130G 763F, 763G, S150G, S160G 773F, 773G, S175G, S185G 863F, 863G, S205G S220G 873F, 873G, S250G S300G, A300G 963F, 963G

STANDARDS REFERENCED

The following Standards, Acts and Regulations were referenced in the preparation of this Risk Assessment.

- NOHSC: 1010 (1994) National Standard for Plant
- OHS Act 2000 (NSW)
- OHS Regulation 2001 (NSW)
- AS2359.6 (1995) Powered Industrial Trucks Safety Code
- AS4360 (2004) Risk Management
- ISO/WD 3691-1 (1999) Industrial Trucks Safety Requirements and Verification
- EN1459 (1999) Safety of Industrial Trucks

Subject: Hazard Identification and Control

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sloping ground, wet and soft or conditions and is equipped with	l .		
muddy surface can lead to roll reversing alarm.	1		
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			Operator Handbook and Manual
Work areas containing explosive provide instruction on how to	Work areas containing explosive		provide instruction on how to

gases, flammable materials, poor		work on sloping ground.
ventilation, underground cables or		Only the Bobcat approved tires,
pipes, prohibited work areas, and		are to be used, and are suitable for
overhead electrical wires are to be		most environmental conditions
avoided		Handbook and Manual provide
		instruction on dangerous work
		areas.
		An exhaust spark arrester is fitted.
d Foreseeable abnormal	Vary high risk possibly loading	Refer to 'a' above.
	Very high risk, possibly leading	
situations, misuse and	to injury or death to operator and	It is essential that the operator be
fluctuation of operating	others.	trained, be certified, experienced
conditions.		in the operation of the loader and
Varying degrees of above can		fully understand the instructions
cause accidents.		in the Operators Manual, before
		attempting abnormal or difficult
		tasks
e Potential for injury due to	Very low risk when operated	Operation and maintenance must
entanglement, crushing,	correctly, and operator keeps	be carried out only in accordance
trapping, cutting, stabbing,	hands and feet on control levers	with the Operation and
puncturing shearing, abrasion,	and pedals when working loader.	Maintenance Manual, which
tearing and stretching.	Very high risk, potential of	contains many warnings and
The above hazards are present if	serious injury, possibly death if	instruction on how to avoid most
the loader is operated or worked	used contrary to instructions,	hazards. Warning and instruction
on, contrary to instructions within	particularly from crushing if	decals of a pictorial design are
the Operators Manual, or in an	operator attempts to exit or enter	fitted to the loader
unsafe manner, such as placing	loader with the engine running or	
feet, legs, or arms outside of the	the bucket raised, or attempts	
loader when working.	maintenance in this position	
Hazards are present in the	without connecting the lift arm	
-	support device, or not following	
must be taken in entering and	instructions in Operators Manual	
leaving the loader	such as those relating to closing	
I	the rear door	
f Generation of hazardous	The risk level is very low when	Instruction is provided for
conditions, due to pressurized	instruction within the Operation	
	and Maintenance Manual is	operation and preventative
content, electricity, noise,		maintenance including hazards
radiation friction, vibration, fire,	followed	regarding pressurized fuel,
explosion, temperature moisture,		hydraulic oil and hot radiator
vapour, gases, dust, ice, hot or		water, noise, electricity, fire,
cold parts.		explosion, temperature, exhaust
Hazards are present with regard to		gases, dust and hot parts together
most of the above.		with warnings and warning
Failure of the electrical system		decals.
can cause the loader to suddenly		An exhaust spark arrestor is
apply the brakes and stop.		fitted.
		The seat belt should always be
		fitted snugly to minimize the
		unlikely effect of sudden braking
		due to electrical failure, and the

		more constant effect of general operation. Refer to handbook and manual.
g Failure of the loader resulting in the loss of load, unintended ejection of work pieces, explosion fragmentation or collapse of parts. The above are not considered a hazard	Low	Operator handbook and Manual warn driver to carry load close to the ground while travelling, to be alert.
h Capability of the loader to lift and move people, equipment and materials and suitability of secondary back-up systems to support the load. The loader is primarily design to move materials, possibly some equipment. Secondary back-up system is not available. It is most dangerous to lift and move people	Safe to move materials. High danger to cause injury or death when lifting or moving people	Control is through education and instruction. Refer to Manual and decals on loader
i Control systems, including guarding and communication systems. No apparent hazards	No risk	
J Potential for falling objects and the plant to roll over The danger of the above is present	High Risk with improper operation Very low risk when operated correctly.	Refer to 'a' above Drivers cab structure meets Skid Steer Loader International Standards
k Suitability of materials for the plant No apparent hazards, provided proper inspection and maintenance instructions are followed	Low risk	Refer to Operation and Maintenance Manual, & inspections for any cracked welds, damaged components and worn pins etc.
I Suitability of all accessories There are many accessories approved for use with the 753 loader. Hazards can exist or not, dependant on how they are used	Can vary from possibility of high risk causing injury or death to almost nil, dependant on whether used incorrectly or according to the respective Operator Manual	Control is made by guarding where possible, decals fixed to the accessory, and Operators Manual, which contain instruction on proper use of the approved attachment or accessory, with appropriate warnings.
m Ergonomic needs relating to installation and use. The cabin is necessarily of a compact design and could be unsuitable for unusually tall, short, overweight operators.	Risk is low for those operators of normal physique, health and strength. Disabilities may be aggravated due to unavoidable jolting when working in rough ground	Manuals provided advise operator to check seating position is comfortable with respect to controls and to ensure that all safety instructions are understood and followed.

Hazards exist if the operator is	conditions.	
suffering from drugs, alcohol, in		
poor health, has disabilities or is		
not alert.		
Cabin seating and controls are		
well suited for those who have		
reasonable strength and fitness.		
	Low risk provided the	Instructions for safe operation of
the loader	replacement equipment is safe	the alternate equipment must be
No hazard provided the substitute	1 1	studied and operated correctly.
equipment is safe etc for the task.	,	F J .
	Risk is low when conditions as	Refer to control as in 'c' above
the impact on workplace design	'c' are not present	Manuals warn operator to keep
and layout.	e are not present	bystanders etc clear.
No hazards exist provided item		bystanders etc cicar.
'c' is noted. Care must be taken to		
remove bystanders and other		
mobile equipment from the		
immediate workplace,		
p Suitability and stability of the	Risk can be high if work site is	Loader meets International
plant and supports.	slopping dangerously, travelling	stability Standards and the
Hazards exist in very poor	too fast, and instructions in	approved tires are suitable for the
workplaces, especially if ground	Manual are not followed,	normal working loads and
surface is soft or severely sloping	Wandar are not ronowed,	operating surfaces.
	D:-1- :- 11	1 3
q Presence of persons and other	Risk is low when operator is	Reversing beeper is fitted.
plant in the vicinity	reasonably alert.	Rotating beacon is an option. Instructions spell out need for
Collisions with persons and plant is possible		
IIS DOSSIDIE		
F 5552525		operator to be alert and not to
- 1		operator to be alert and not to operate loader and attachments
		operator to be alert and not to operate loader and attachments near bystanders especially when
To Francisco		operator to be alert and not to operate loader and attachments near bystanders especially when inexperienced or learning.
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		operator to be alert and not to operate loader and attachments near bystanders especially when inexperienced or learning. A horn is also available as an option. Design of cabin provides good visibility.
r Potential for inadvertent	No risk when instructions are	operator to be alert and not to operate loader and attachments near bystanders especially when inexperienced or learning. A horn is also available as an option. Design of cabin provides good visibility. Instructions in the manuals advise
r Potential for inadvertent movement or operation of the		operator to be alert and not to operate loader and attachments near bystanders especially when inexperienced or learning. A horn is also available as an option. Design of cabin provides good visibility. Instructions in the manuals advise on correct gripping of control
r Potential for inadvertent movement or operation of the plant	No risk when instructions are	operator to be alert and not to operate loader and attachments near bystanders especially when inexperienced or learning. A horn is also available as an option. Design of cabin provides good visibility. Instructions in the manuals advise on correct gripping of control lever.
r Potential for inadvertent movement or operation of the plant Hazards do not exist when the	No risk when instructions are	operator to be alert and not to operate loader and attachments near bystanders especially when inexperienced or learning. A horn is also available as an option. Design of cabin provides good visibility. Instructions in the manuals advise on correct gripping of control lever. Instructions also cover
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r Potential for inadvertent movement or operation of the plant Hazards do not exist when the instructions are followed. Combination [four in one] bucket	No risk when instructions are	operator to be alert and not to operate loader and attachments near bystanders especially when inexperienced or learning. A horn is also available as an option. Design of cabin provides good visibility. Instructions in the manuals advise on correct gripping of control lever. Instructions also cover
r Potential for inadvertent movement or operation of the plant Hazards do not exist when the instructions are followed. Combination [four in one] bucket can open inadvertently if the	No risk when instructions are	operator to be alert and not to operate loader and attachments near bystanders especially when inexperienced or learning. A horn is also available as an option. Design of cabin provides good visibility. Instructions in the manuals advise on correct gripping of control lever. Instructions also cover requirements of operator before
r Potential for inadvertent movement or operation of the plant Hazards do not exist when the instructions are followed. Combination [four in one] bucket can open inadvertently if the trigger is accidentally operated,	No risk when instructions are	operator to be alert and not to operate loader and attachments near bystanders especially when inexperienced or learning. A horn is also available as an option. Design of cabin provides good visibility. Instructions in the manuals advise on correct gripping of control lever. Instructions also cover requirements of operator before
r Potential for inadvertent movement or operation of the plant Hazards do not exist when the instructions are followed. Combination [four in one] bucket can open inadvertently if the trigger is accidentally operated, dumping the load.	No risk when instructions are	operator to be alert and not to operate loader and attachments near bystanders especially when inexperienced or learning. A horn is also available as an option. Design of cabin provides good visibility. Instructions in the manuals advise on correct gripping of control lever. Instructions also cover requirements of operator before leaving the cabin of the loader.
r Potential for inadvertent movement or operation of the plant Hazards do not exist when the instructions are followed. Combination [four in one] bucket can open inadvertently if the trigger is accidentally operated, dumping the load. s Systems of work associated	No risk when instructions are	operator to be alert and not to operate loader and attachments near bystanders especially when inexperienced or learning. A horn is also available as an option. Design of cabin provides good visibility. Instructions in the manuals advise on correct gripping of control lever. Instructions also cover requirements of operator before leaving the cabin of the loader. Understanding and conforming to
r Potential for inadvertent movement or operation of the plant Hazards do not exist when the instructions are followed. Combination [four in one] bucket can open inadvertently if the trigger is accidentally operated, dumping the load. s Systems of work associated with the plant.	No risk when instructions are	operator to be alert and not to operate loader and attachments near bystanders especially when inexperienced or learning. A horn is also available as an option. Design of cabin provides good visibility. Instructions in the manuals advise on correct gripping of control lever. Instructions also cover requirements of operator before leaving the cabin of the loader. Understanding and conforming to manual instruction is required by
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r Potential for inadvertent movement or operation of the plant Hazards do not exist when the instructions are followed. Combination [four in one] bucket can open inadvertently if the trigger is accidentally operated, dumping the load. s Systems of work associated with the plant.	No risk when instructions are followed. No low risk when instructions are	operator to be alert and not to operate loader and attachments near bystanders especially when inexperienced or learning. A horn is also available as an option. Design of cabin provides good visibility. Instructions in the manuals advise on correct gripping of control lever. Instructions also cover requirements of operator before leaving the cabin of the loader. Understanding and conforming to manual instruction is required by the operator.

followed. decal. Loader is fitted with grab Hazard exist due to slipping or handles on each side of cabin, falling if care is not used, and bucket or attachment step and instructions are not follow when safety treads on top of the loader entering or leaving cabin lift arms and frame. Warning not to jump. Appropriate safety boots should be worn. u Competency of operators Risk is low if the operator has Certified operators require the Hazards are extreme if the been trained and is certified, additional instructions, which are operator is not certified, has not however the operator must be fit, comprehensively covered in the been trained in the use of the have studied the manuals and Operator's Handbook and loader, are not fit, or are under the have some familiarization with Operation and Maintenance influence of alcohol or drugs. the loader. Manual. Operators are warned that they need to be fit, not have any disabilities that may adversely affect their competent working of the loader or be aggravated by the movement of the loader especially when operating in construction or rough conditions. Operator must be familiar with the rated load of the loader, the capacity of buckets being used, and the weight of the material being handled. Refer to 'm'.