



RISK MANAGEMENT SURVEY

Report Number	BTE 20220923-1504
Date	23-Sep-2022
Created By	Elizabeth Martin
Assessor	ANDREW FAHEY
Assist. Assessor(s)	ANDREW FAHEY
Owner	Tutt Bryant Equipment - NSW
Make	Sumitomo
Model	SH235X-6
Type	Excavator - Large (20 Tonne +)
Serial Number	235N6-1346
Engine Number	4HK1-848675
Customer	DL CIVIL PTY LIMITED
Assessment Purpose	Sale
State	NSW

SECTION 1 IMPORTANT INFORMATION

This survey has three sections -

1. Front Cover - Ensure that your machine details are correct.
2. Features - Please confirm existing information is correct.
3. Questions - Please answer ALL questions. Each question must be answered accurately and the appropriate notes added to the Notes section at the end of the questions.

If you have any questions about this survey please call Online Safety Systems on 1300 72 88 52

internal

**MACHINE
DETAILS**

Make - Model: Sumitomo - SH235X-6
Type: Excavator - Large (20 Tonne +)
Serial Number: 235N6-1346

Inspected By: ANDREW FAHEY
Inspected On: 23 Sep 22 - 3:04 PM
Engine Number: 4HK1-848675

SECTION 2 STANDARD SPECS

- NOISE TEST RESULTS

1. Manufacturers specified noise level dBA	
2. Ambient noise level dBA	
3. Noise level - Operator position (high idle) dBA	
4. Noise level - Operator position (low idle) dBA	
5. Noise level LHS dBA @ m (high idle)	
6. Noise level Front dBA @ m (high idle)	
7. Noise level RHS dBA @ m (high idle)	
8. Noise level Rear dBA @ m (high idle)	

BUCKET

Standard bucket capacity, SAE rated (m3)	0.80
Standard bucket width (mm)	

CAPACITIES

Fuel Tank Capacity (Litres)	
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DIMENSIONS/WEIGHTS

Dig depth to cut 2.44 m level bottom (mm)	
Digging depth (mm)	6,650
Dump height (mm)	7,970
Ground clearance (mm)	
Max depth of vertical wall (mm)	5,920
Operating weight (kg)	25000
Tailswing radius (mm)	1720
Transport Height (mm)	3090
Transport Length (mm)	9210
Width (mm)	2990

ENGINE

Engine Displacement (Litres)	5.193
Engine Hours	
Engine Make & Model	ISUSU AM-4HK1X

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Engine Number	
Engine Power (kW@rpm)	119.3/ 1800
Number of Cylinders	

EXTRAS

Spare spool for attachments? Yes/No	
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HITCH

Quick Hitch Make	
Quick Hitch Model	
Quick Hitch Serial No.	

HYDRAULICS

Flow of main pumps (L/Min)	2 x 211
Hydraulic Oil Reservoir Capacity (Litres)	
Pump Types	2 Variable displacement axial piston
Relief valve pressure, main pumps (Bar)	

PLANT CLASSIFICATIONS

Class	
Year	

SAFETY STRUCTURES

FOPS Compliance No.	
FOPS Serial No.	
ROPS Compliance No.	
ROPS Serial No.	

TRACKS

Track length on ground (mm)	4700
Track pad width (mm)	600

TRANSMISSION

Speed (km/h)	
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WORK CAPABILITIES

Arm breakout (kgf)	103
Bucket breakout (kgf)	142
Gradeability - Degrees/(%)	70

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Reach @ ground level (mm)	
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SECTION 2 STANDARD SPECS (CONTINUED)

ARE ANY OF THESE EXTRAS FITTED TO THE UNIT?

EXTRA	Y/N	DETAILS
Air Conditioning	<input type="checkbox"/>	
Auger Drive	<input type="checkbox"/>	
Bucket - 1000mm	<input type="checkbox"/>	
Bucket - 1200mm	<input type="checkbox"/>	
Bucket - 1500mm	<input type="checkbox"/>	
Bucket - 1800mm	<input type="checkbox"/>	
Bucket - 2000mm	<input type="checkbox"/>	
Bucket - 450mm	<input type="checkbox"/>	
Bucket - 600mm	<input type="checkbox"/>	
Bucket - 750mm	<input type="checkbox"/>	
Bucket - 900mm	<input type="checkbox"/>	
Bucket - Mud - 1200mm	<input type="checkbox"/>	
Bucket - Mud - 1500mm	<input type="checkbox"/>	
Bucket - Mud - 1800mm	<input type="checkbox"/>	
Bucket - Mud - 900mm	<input type="checkbox"/>	
Bucket - Sifting - 1500mm	<input type="checkbox"/>	
Bucket - Sifting - 1800mm	<input type="checkbox"/>	
Bucket - Tilt	<input type="checkbox"/>	
Compaction Plate	<input type="checkbox"/>	
Compaction Wheel	<input type="checkbox"/>	
Extend-a-Hoe	<input type="checkbox"/>	
FOPS	<input type="checkbox"/>	
Grapple - Semi Fixed	<input type="checkbox"/>	
Grapple Rotator	<input type="checkbox"/>	
Hammer Piping	<input type="checkbox"/>	
Hitch - Manual	<input type="checkbox"/>	
Hitch - Quick	<input type="checkbox"/>	

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EXTRA	Y/N	DETAILS
Hitch - Tilt	<input type="checkbox"/>	
OPG	<input type="checkbox"/>	
Other	<input type="checkbox"/>	
Percussion Breaker	<input type="checkbox"/>	
Ripper	<input type="checkbox"/>	
ROPS - Cabin	<input type="checkbox"/>	
Screening Attachment	<input type="checkbox"/>	

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SECTION 3 QUESTIONS

INFORMATION

Is the manufacturer's operation handbook available for this item of plant? (You cannot answer N/A)	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N/A
Is the manufacturer's maintenance manual(s) available for this item of plant? (You cannot answer N/A)	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N/A
Are the service and maintenance records available for this item of plant? (You cannot answer N/A)	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N/A
Is a pre-operational safety checklist available for this Excavator? (You cannot answer N/A)	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N/A
Are Safe Operation Procedures available for this Excavator? (You cannot answer N/A)	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N/A
Are all persons who operate this item of plant qualified, trained and experienced to do so, and where necessary do they hold the relevant certification/license?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N/A
Are specific guidelines/SWMS/SOP available for loading and unloading this item of plant to & from the load deck of a truck or trailer?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N/A
Are specific load restraint guidelines/SWMS/SOP available when restraining this item of plant on to the load deck of a truck or trailer?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N/A

CABIN/WORK AREA

Does the cabin/work area access and egress have slip resistant steps that are free from damage, located at the appropriate height to allow safe access and egress without undue bodystressing/strains, with three points of contact available at all times?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N/A
Does the cabin/work area access and egress have an instruction label adjacent to advise all personnel of the following - 1. Always face the item of plant during access and egress. 2. Always maintain three points of contact during access and egress. 3. Ensure steps are clean. 4. Never jump off machine?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N/A
Does the operator cabin/work area have a minimum of two (2) possible exits? Generally this includes the main operator entrance and an alternative exit for emergency purposes (e.g. a window, hatch, or door). Answer N/A if this machine has no cab. Answer NO if 2nd exit is fitted with a structure which will obstruct exits use, e.g. vandal protection mesh.	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N/A
Do the emergency exits for this item of plant meet the following requirements - 1. Clearly and legibly labelled 2. Instructions for use are clear and legible and located adjacent the exit 3. Any required tools required for use are available e.g. Emergency hammers? Answer NA if no emergency exits due to no cabin	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N/A
Are all cabin/work area windows and screens present, clean, constructed from safety glass and free from cracks and other damage? (N.B. Perspex is not acceptable)	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N/A
Are all items that could cause harm to the operator in the event of a collision or rollover securely restrained?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N/A
Are all work area floors non-slip and free from damage and debris (including rubbish, tools, etc)?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N/A
Does this item of plant have at least two (2) functional operator rear view mirrors, one on each side of the item of plant?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N/A

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Is there an ergonomic seat which is free from damage and tears, permanently and securely fitted to the operator work area of this item of plant?	<input type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N/A
Is this item of plant fitted with an operator seat belt which is free from damage and sturdily and permanently attached?	<input type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N/A
If this item of plant does not have a passenger seat, (answer n/a if this item of plant has a passenger seat) is there a clear and legible hazard warning label fitted re: Operator only, No passengers?	<input type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N/A
Is this item of plant fitted with a fully enclosed cabin, (answer n/a if open or no cabin) if so is there a working air conditioner fitted to this operator cabin?	<input type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N/A
Is this item of plant fitted with either an open operator cabin (not fully enclosed) or with no operator cabin? (Answer n/a if a fully enclosed cabin)	<input type="checkbox"/> Y	<input type="checkbox"/> N	<input checked="" type="checkbox"/> N/A
Is this item of plant fitted with fully functional windscreen wipers and washers? (if this item of plant does not have a screen then answer n/a)	<input type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N/A
Does this item of plant have a hazard warning label re: overhead electrical hazards and a minimum approach distances table fitted at operator work areas and adjacent to any access point to the high point of the item of plant?	<input type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N/A
Does this item of plant have a hazard warning label re: underground services and advice to "Dial 1100 Before You Dig" fitted at operator work area?	<input type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N/A
Is this item of plant fitted with an instruction label in clear view of the operator which advises that - "Mobile phones must not be used whilst operating machine"?	<input type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N/A
Do all operator work platforms that are either - a) above 0.5m and below 2.0m from the ground or nearest platform, where three points of contact cannot be constantly maintained by any person on the platform performing expected tasks or b) above 2.0m from the ground or nearest platform have an approved guardrail that meets the following requirements: 1. All guardrails are at least 1.1m high 2. All guardrails have a mid rail 3. All sides and ends have a kick plate which is at least 100mm high? (answer n/a if there are no platforms where the operator's feet are above 0.5m & below 2.0m where a constant 3 points of contact is possible during access when performing expected tasks)	<input type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N/A

CONTROLS

Is this item of plant fitted with a fully functional warning device, such as a horn, which is clearly and easily identified?	<input type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N/A
Are all controls including all levers, buttons, pedals, switches etc. ergonomically placed in relation to the operator work position?	<input type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N/A
Are all controls including all levers, buttons, pedals, switches etc. clearly labelled as to their purpose and method of operation?	<input type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N/A
Are all controls orientated so that the movement of the control is consistent with the action of the machine e.g. moving a control lever to the left results in the machine turning to the left?	<input type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N/A
Are all controls including all levers, buttons, pedals, switches etc. non-slip and free from damage?	<input type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N/A
Are the primary operator controls fitted with an isolation device which meets the following requirements - a) Must be engaged to allow entry & exit of the machine b) Is not easily bypassed?	<input type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N/A

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Does this item of plant have a working neutral start control fitted? (you cannot answer N/A) Y N N/A

Is this item of plant fitted with a working movement awareness alarm which is automatically activated when travel in any direction occurs? (manual operation is a no answer)(you cannot answer n/a to this question) Y N N/A

OPERATOR PROTECTIVE GUARDS

If the operating mass of this item of plant is greater than 1000kg, (If the operating mass is less than 1000kg then answer n/a), has a Roll Over Protective Structure (ROPS) to ISO 3471, ISO 12117.1 or 2, AS 2294 or AS 4987 been fitted? Y N N/A

If this item of plant is fitted with a Roll Over Protective Structure (ROPS), (if this item of plant does not have a ROPS fitted answer n/a), is it free from damage, including cuts, drill holes, welds and dents? Y N N/A

If this item of plant is fitted with a ROPS, (answer n/a if no ROPS fitted) is there a warning label present which states that it must not be damaged by cutting, drilling or welding? Y N N/A

If this item of plant is fitted with a ROPS, is there a clear and legible label present which states that "seatbelts must be worn"? Y N N/A

Is this item of plant fitted with a Falling Objects Protective Structure (FOPS) to ISO 3449 Level I or ISO 10262 Level I?
 Answer YES if compliance plate states compliance to ISO 3449 or ISO 10262 but not a level.
 Answer NO if no FOPS is fitted.
 Answer N/A if Level II FOPS. Y N N/A

Is this item of plant fitted with a Falling Objects Protective Structure (FOPS) to ISO 3449 Level II or ISO 10262 Level II?
 Answer N/A if no FOPS or Level I FOPS. Y N N/A

Is this item of plant used in forestry operations, (answer n/a if not used in forestry operations) and if so is it fitted with an Operator Protective Guard (OPG = Devices intended to provide object protection to the front, side and top of the operator station e.g heavy duty mesh)? Y N N/A

PPE

Does this item of plant have a hazard warning label attached adjacent the operator work area re: wearing of hearing protection? [Answer N/A if the SPL(sound pressure level) is less than 85 dB(A) at the operator work area] Y N N/A

Does this item of plant have hazard warning labels attached which are visible to bystanders from a distance of 10m re: wearing of hearing protection? [Answer N/A if the SPL(sound pressure level) is less than 85 dB(A) at a distance of 6m] Y N N/A

LIGHTING

Does this item of plant have servicable head lights, reversing lights, front and rear lighting to the work area, lighting to the operator controls and work areas? Y N N/A

Is this item of plant fitted with a fully functional 55 watt amber rotating or strobe safety beacon which meets the following criteria during normal daylight?
 - Is visible up to 200m in all directions (allowing for intermittent obstruction from the plant structure whilst the plant is in operation)
 - Is fitted in the most appropriate location on machine to maximise visibility without risking continual damage
 NOTE: more than one beacon may need to be fitted to meet these criteria. Y N N/A

LIFTING

Does the boom have a clear and legible rated capacity (SWL) label fitted? Y N N/A

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If the boom has a lifting point fitted, (if there is no lifting point then answer n/a), is there a clear, legible load/distance table adjacent the operator work area? Y N N/A

Does this item of plant have a rated capacity greater than 1T and a lifting point fitted, (answer n/a if rated capacity less than 1T or no lifting point fitted) if so is this item of plant fitted with a fully functional controlled lowering device (e.g anti drop valve) which will prevent rapid descent of the boom in the event of hydraulic system failure? Y N N/A

Is this item of plant fitted with a lifting point, (answer n/a if this item of plant does not have a lifting point fitted) if so is it a closed eye type? (note: hooks with a latching device are not considered a closed eye type) Y N N/A

Is this item of plant fitted with a lifting point, (answer n/a if this item of plant does not have a lifting point fitted) if so does it have a device which is within easy view of the operator at all times that indicates the levelness of the machine chassis? Y N N/A

ENGINE

Do the engine fan, alternator belts, pulleys and gears have a sturdy permanently attached guard(s)? Y N N/A

Do all engine guards have a clear and legible hazard warning label present which states that the guard must not be opened or removed unless the engine is not running and all moving parts have stopped? Y N N/A

Is the engine exhaust guarded to prevent injury to any person and control the risk of initiating a fire? Y N N/A

Is this item of plant fitted with engine bay access steps, ladder, rungs etc. (answer N/A if engine can be safely accessed when standing on the ground), if so, are they slip resistant, free from damage and located at the appropriate height to allow safe access and egress without undue body stressing/strains, with three points of contact available at all times? Y N N/A

BATTERY

Are all batteries fitted to this item of plant constrained to prevent displacement & fitted with a permanent sturdy cover which allows for ventilation? Y N N/A

HYDRAULICS

Does this item of plant have hydraulic hoses? (You cannot answer n/a to this question) Y N

Are all hydraulic hoses and fittings free from damage and protected from damage at all points where the hoses come into contact with the plant structure? (if this item of plant does not have hydraulic hoses answer n/a), (if you answer no to this question document the location of the damage/contact in the assessor comments section for this question) Y N N/A

Are all hydraulic hoses and fittings located or shielded to protect the operator from injury due to fluid jet or movement (whiplash) of the hose as a result of leakage or component failure? (Diffusion sleeving can act as a shield but must be attached to the fitting not the hose) Y N N/A

QUICK HITCH

Is this item of plant fitted with a quick hitch (fully or semi auto, answer n/a if no quick hitch), if so is the quick hitch operation control fitted with a device/method to prevent accidental operation? Such devices/methods may include one or more of the following -

- (a) Recessing or shrouding the actuator.
- (b) Increasing the operating force of the actuator
- (c) Use of a lock-out system
- (d) Locating the actuator where it is unlikely to be accidentally knocked
- (e) Using a set of actuators requiring sequential actions
- (f) Using a two-hand control system
- (g) Using an enabling device

Y N N/A

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Is this item of plant fitted with a quick hitch (fully or semi auto, answer n/a if no quick hitch), if so is a fully functional audible alarm fitted to the operator work area to alert the operator that the host machine is in the mode that allows for the controls to be operated to engage or disengage attachments?

Y	N	N/A
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Does the hydraulic quick hitch have the following information permanently marked upon it -

1. A unique identification mark (serial number)
2. The manufacturer's name
3. The host machine class
4. The mass of the hitch in kilograms
5. The lift point capacity (if fitted) in kilograms

Y	N	N/A
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Is this item of plant fitted with a fully automatic quick hitch that allows attachments to swing if the primary retention system fails? (answer N/A if semi-auto or if fully auto that does not allow swinging), if so is documented evidence available that the quick hitch was fitted to this item of plant prior to December 31st 2015? (If you are unsure answer NO)

[Quick hitches are devices fitted between a dipper arm or stick and an attachment, they do not include a "quick coupler" between a boom or loader arm and an attachment]

Y	N	N/A
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Is this item of plant fitted with a fully automatic hydraulic (quick) hitch (i.e. has hydraulically operated latch as primary retention device and remotely controlled safety device as back up) between the excavator arm and attachments , if so does the safety device meets all of the following criteria -

1. Is a mechanical device i.e. not just an indicating system/device
 2. Must be intentionally disengaged to remove attachments
 3. Is not the primary source of retention of attachments
 4. Has means of verifying engagement of the primary retention device from the operator position and
 5. Has means of verifying engagement of safety system from operator position
- (If this item of plant is fitted with a manual or semi automatic quick hitch then answer N/A)

Y	N	N/A
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Is this item of plant fitted with a semi-automatic quick hitch (answer N/A if not fitted), if so is documented evidence available that the semi-automatic hitch was fitted to this item of plant prior to April 30th 2014? (If you are unsure answer NO)

[Quick hitches are devices fitted between a dipper arm or stick and an attachment, they do not include a "quick coupler" between a boom or loader arm and an attachment]

Y	N	N/A
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If this item of plant is fitted with a semi-automatic hydraulic (quick) hitch which was installed before April 30th 2014 is there a mechanical safety system fitted such as a safety pin? (If this item of plant is fitted with a manual or fully automatic quick hitch or a semi auto fitted after April 30th 2014 then answer N/A)

Y	N	N/A
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CHASSIS

Is there a fire extinguisher mounted adjacent to the operators area, tagged and inspected periodically as prescribed by AS 1851?

Y	N	N/A
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Do the tank(s) on this item of plant carry a clear, legible label identifying their contents, and if appropriate any necessary controls re: those contents? (this includes radiator, hydraulic and petrol/diesel tanks)

Y	N	N/A
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TRACKS

Are all tracks and track components fully functional? (Indicate in the assessor comments section for this question if there are any tracks or track components which require immediate replacement).

Y	N	N/A
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DRAWBAR/TOW POINT

Is this item of plant fitted with a recovery tow point (answer n/a if no recovery tow point), if so is there a hazard warning label adjacent which states "Recovery tow point - Read manufacturer's towing instructions before towing"?

Y	N	N/A
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MACHINE REAR

Does this item of plant have a clear hazard warning label re: general plant movement, tail swing, and keep clear to the rear?

Y	N	N/A
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If this item of plant is left hand drive, (answer n/a if not left hand drive) does this item of plant have a hazard warning label re: left hand drive, at the rear?

Y	N	N/A
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PLANT CONDITION

Is this item of plant free from any major leaks? (this includes engine, transmission, cooling system, air, fuel, drive line, wheel hubs, steering and hydraulics). If "no", indicate position of leak in the assessor comments section for this question.

Y	N	N/A
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Is this item of plant in original condition, ie free from any form of modification or upgrade? (If you answer NO, i.e. there is some modification, please document location, type of modification and date if known in the assessor comments section for this question)

Y	N
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Is this item of plant free from any structural damage? E.g. cracks in frames/chassis (current or repaired), bends or damage to structural components, etc. (If you answer NO, i.e. there is some structural damage, past or present, please document location and type in the assessor comments section for this question)

Y	N
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<END OF RISK MANAGEMENT SURVEY>