RISK MANAGEMENT REPORT

TYPE	Loader, Tool Carriers
MAKE	JCB
MODEL	426 HT
SERIAL NUMBER	2275082
ENGINE NUMBER	22378561

Report Number	CEA 20200226-1120
Date	26-Feb-2020
Created By	Chris Kane
Assessor	Chris Kane
Assist. Assessor(s)	
Completed By	Chris Kane
Owner	CEA Brisbane
Assessment Purpose	Sale
State	QLD

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DIMENSIONS/WEIGHTS	Dump height, bucket @ 45° discharge (mm)	2848
	Dump reach bucket @ 45° discharge (mm)	1948
	Ground clearance (mm)	427
	Height to top of cab (mm)	3155
	Length, incl bucket (mm)	6750
	Operating weight (kg)	13120
	Static tip load, full turn (kg)	8044
	Turn circle diameter (mm)	11580
	Wheelbase (mm)	3000
	Width w/o bucket (mm)	2403
ENGINE	Engine Displacement (Litres)	6
	Engine Hours	
	Engine Make & Model	Cummins B Series
	Engine Number	
	Engine Power (kW@rpm)	111@2200
	Number of Cylinders	6
EXTRAS	Ride control system: Std/opt/Not available	Opt
PLANT CLASSIFICATIONS	Class	ERG Class WL7: Net engine pwr >89 kW <=114 kW
	Year	2003 - 2006
SAFETY STRUCTURES	FOPS Serial No.	
	ROPS Serial No.	
TRANSMISSION	Maximum speed, Fwd/ Rev (km/h)	39/26
	Speeds F/R	4 , 3
	Transmission	PS/Auto
TYRES	Tyres	20.5R 25 L2
WORK CAPABILITIES	Bucket breakout force (kgf)	13800
	Operating cap (SWL) kg - 50% of STL @ full turn	4022
EXTRAS	Air Conditioning	
	Bucket - 4 in 1	
	FOPS	
	Fork attachment	
	Hydraulic Coupler	
	Other	
	ROPS - Cabin	

SECTION 4 RISK TREATMENTS REQUIRED

This section of the report pertains to hazards created by use of this item of plant which currently do not have risk treatments in place. The risk treatments recommended in this section have been developed based on relevant Australian Standards, health & safety legislation, the hierarchy of risk treatment in accordance with the guidelines set forth in AS/NZS ISO 31000 – Risk Management and various other sources. The recommended risk treatment measures must be developed, implemented and validated as effective prior to the operation, maintenance or testing of this item of plant. Treatments applied must be dated and initialled adjacent the recommendations. All operators must read and understand the entire contents of this section prior to operating this item of plant.

	HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating	Time Frame	Due Date	Date Rectified	Initial
OPERATION	NOMINATED OPERATOR ONLY **INCORRECT OPERATION**	CRITICAL 24	MEDIUM 15	Immediate	26-Feb-20		
	Risk Treatment Required: Operator Competency Only persons who are qualified, trained and experienced and/or hold the relevant certification/license can operate this item of plant. If there is not a competent/licensed person available for operation of this item of plant then only persons who are supervised by a competent/licensed person can operate this item of plant. Legislation: State Health & Safety Legislation & Regulation						
	References: Work Health & Safety Act & Regulations-						

SECTION 5 RISK TREATMENTS IN PLACE

This section of the report pertains to risk treatments currently in place on this item of plant. This section must be read in conjunction with the safety section of the manufacturers handbook. All operators must read and understand the entire contents of this section prior to operating this item of plant. These treatments or equivalent must remain in place at all times whilst this item of plant is in operation.

	HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating
DELIVERY	**CRUSHING**	HIGH 22	MEDIUM 15
	Risk Treatments in Place: SWMS Loading/Unloading Ensure that all operators follow approved SWMS/SOP when loading and unloading this machine to and from a flat top truck or trailer, low loader or tilt tray.		
	References: Work Health & Safety Act & Regulations-		
	CRUSHING	HIGH 22	MEDIUM 15
	Risk Treatments in Place: SWMS Load Restraint Ensure that all operators follow the approved SWMS/SOP when restraining this machine for transport.		
	References: Work Health & Safety Act & Regulations-		
OPERATION	**INCORRECT OPERATION**	HIGH 22	MEDIUM 15
	Risk Treatments in Place: Operation Handbook The manufacturer's operation handbook has been supplied for this item of plant. This handbook must be available at all times to all potential operators and supervisory staff. All potential operators must read and be familiar with this handbook prior to operating. A complete risk assessment/Job Safety Analysis must be undertaken covering all operating processes and environments associated with this item of plant. SWMS should be produced for specific tasks associated with use of this item of plant.		

HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating
ELECTROCUTION, EXPLOSION	HIGH 22	MEDIUM 15

Risk Treatments in Place: Dial Before You Dig (AUS)

This item of plant is fitted with a clear hazard warning label re: underground services and advice to "Dial 1100 Before You Dig"to the operator work area. This advice must be adhered to strictly. Digging into an electricity cable or gas pipe can cause serious injury or death. Damaging a pipe or cable may also lead to isolating a community from emergency services such as fire, police or ambulance. This label must be present, clear and legible at all times.

References: ISO31000

COLLISION	HIGH 22	MEDIUM 15

Risk Treatments in Place: Phone Use label

This item of plant is fitted with an instruction label advising that mobile phones must not be used whilst operating this machine. Accordingly all operators must not use a mobile phone at any time whilst operating machine. If phone use is necessary then operator must place machine in park configuration in a safe position prior to phone use. Operators MUST adhere to this advice at all times.

This label must be clear and legible at all times whilst this item of plant is in operation.

References: AS1319- , ISO31000

POISONING, EXPLOSION, BURNS	HIGH 22	MEDIUM 15

Risk Treatments in Place: Tank ID Label

The tank(s) on this item of plant have clear, legible label(s) identifying their contents, and if appropriate any necessary controls re: the contents. These must be present, clear and legible at all times. (this includes radiator, hydraulic and petrol/diesel tanks)

References: Work Health & Safety Act & Regulations-

CRUSHING	HIGH 22	MEDIUM 15

Risk Treatments in Place: Hydraulic Coupler

The loader boom is fitted with an automatic hydraulic attachment coupler i.e. is remotely operated from the operator position. The coupler is fitted with a safety device which detects and displays verification that coupler locking device is engaged. After engagement operators MUST manipulate the attachment to confirm correct engagement of coupler locking device.

Once fitted the safety device must be fully functional at all times whilst this item of plant is in operation.

This device must be checked as part of your daily pre-operational checklist, if any fault is detected at any time then operation must cease until the fault is rectified.

References: ISO31000

INCORRECT OPERATION, OPERATIONAL MALFUNCTION	HIGH 22	MEDIUM 15

Risk Treatments in Place: Drawbar Capacity Label

The item of plant has a drawbar and a hazard warning label attached adjacent the drawbar/tow hitch re: maximum towing capacity, crushing, keep clear. It must be present and fully functional and serviceable at all times.

References: ISO31000

FIRE	HIGH 21	MEDIUM 15

Risk Treatments in Place: Fire Extinguisher

This item of plant is fitted with an approved and maintained fire extinguisher. Fire extinguisher(s) must be present and fully functional at all times. They must be readily accessible to the operator. Regular inspections must also be carried out in accordance with the manufacturer's requirements and AS 1851 – 1995

CRUSHING	HIGH 21	MEDIUM 15

Risk Treatments in Place: Articulated Joint Crush Label

This item of plant has clear hazard warning labels re: crush zone, keep clear, that are attached to each side of the articulated joint. These must be present, clear and legible at all times whilst this item of plant is in operation.

References: ISO20474- , AS/NZS4024.1201

HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating
CRUSHING, COLLISION	MEDIUM 12	LOW 6

Risk Treatments in Place: Warning Device (horn)

This item of plant is fitted with a fully functional audible warning device such as a horn. This must be easily accessed by the operator, and easily identifiable by nearby pedestrians.

All operators should ensure the warning devices are functional at the start of each shift, by completing pre-start checklists. Warning devices should operate automatically where appropriate (eg reversing)

References: ISO7731, ISO9533

COLLISION	MEDIUM 9	LOW 5

Risk Treatments in Place: Recovery Point Label

This item of plant is fitted with a hazard warning label adjacent the recovery tow point which states "Recovery tow point – Read manufacturer's towing instructions before towing". Failure to do so could result in DEATH or SERIOUS INJURY.

This label must be clear and legible at all times whilst this item of plant is in operation.

References: ISO31000

DESIGN COMPLIANCE

CRUSHING, COLLISION	CRITICAL 24	MEDIUM 15

Risk Treatments in Place: Park Brake

This item of plant is fitted with a fully functional park (hand) brake which meets the following requirements –
a) is separate to the service brakes
b) has a device which maintains the brake in the on position until intentionally disengaged &
c) requires at least two separate and distinct movements to disengage the park brake.

The park brake must be regularly inspected and tested. These inspections and tests must be documented as part of your plant safety programme.

References: AS2958

CRUSHING	CRITICAL 24	MEDIUM 15

Risk Treatments in Place: Level Lift Loader

This item of plant is fitted with a level lift type loader. The level lift functionality must be operational at all times whilst this item of plant is in operation.

OR

This item of plant is fitted with a FOPS to control the crushing hazard created by the non level lift loader. The FOPS must be present at all times whilst this item of plant is in operation and a restraining device must be used to hold loads in place which a risk assessment indicates are unstable and may fall.

References: ISO20474-

INSTABILITY, INCORRECT OPERATION	CRITICAL 24	LOW 1

Risk Treatments in Place: Drawbar

The drawbar/tow hitch on this item of plant is below the centre line of the drive diff/axle. This must not be modified so that it is above the centre line of the drive diff/axle. No load must be towed from any point above the centre line of the drive diff/axle. This includes the 3rd arm and 3PL lifting arms.

References: ISO20474-

HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating
CRUSHING	HIGH 22	MEDIUM 15

Risk Treatments in Place: **Articulated Joint Locking Device**

This item of plant is fitted with a safety locking device to the articulated joint (either a locking arm or cylinder locking devices) and clear, legible instruction labels on both sides of the articulated joint which state that either of these devices must be engaged during any maintenance to the articulated joint. These must be present, serviceable and employed at all times whilst this item of plant is in operation.

References: AS1319- , AS/NZS4024.1201

FALLING	HIGH 22	MEDIUM 15

Risk Treatments in Place: **Handrails**

All operator work platforms are either -

a) above 0.5m and below 2.0m from the ground or nearest platform and have three points of contact which can be constantly maintained by any person on the platform performing expected tasks or

b) are above 2.0m from the ground or nearest platform and have an approved guardrail which 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.

These work platforms, access points and/or guardrails must be present, fully functional and serviceable at all times whilst this item of plant is in operation.

References: AS5327

COLLISION	HIGH 22	MEDIUM 15

Risk Treatments in Place: **Beacon**

This item of plant is fitted with a safety beacon. This beacon must meet the following criteria at all times whilst this item of plant fitted is in operation -

- 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 be fitted to meet these criteria.

References: ISO20474-

CRUSHING, NON COMPLIANCE	HIGH 22	MEDIUM 15

Risk Treatments in Place: **Forklift Tyne Movement Lock**

The fork tynes are fitted with a lateral movement locking device. This device must be employed and fully functional at all times whilst this item of plant is in use.

References: AS2359

OPERATIONAL MALFUNCTION	HIGH 22	LOW 2

Risk Treatments in Place: **Plant Modification**

The plant is in original condition.

ENTRAPMENT	HIGH 21	MEDIUM 15

Risk Treatments in Place: **Two Operator Exits**

The operator cabin/work area on this item of plant has a minimum of two (2) possible exits. These must be functional and accessible at all times whenever the item of plant is manned, whether during operation or maintenance activities.

References: AS5327

POOR VISIBILITY	HIGH 21	MEDIUM 15

Risk Treatments in Place: **Windscreen Wipers**

The windscreen wipers and washers fitted to this item of plant must be fully functional at all times.

References: AS/NZS4024.1201

HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating
SLIPPING	MEDIUM 12	LOW 6

Risk Treatments in Place: **Operator Work Area Access/Egress**

Safe access and egress to the cabin/work area(s) must be maintained at all times whilst this item of plant is in operation. It must be non slip, free from damage, located at a height so as to not cause undue body stresses and strains with three points of contact available to personnel at all times.

All personnel must -
1. Always face the item of plant during access and egress.
2. Always maintain three points of contact during access and egress.
3. Never carry an object(s) in his/her hand(s) during access and egress.
4. Never jump off machine.

References: AS5327

FALLING, SLIPPING	MEDIUM 12	LOW 6

Risk Treatments in Place: **Access/Egress Instruction Label**

An instruction label is fitted adjacent access/egress areas 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 the steps are clean.
4. Never jump off machine.

This label must be clear and legible at all times whilst this item of plant is in operation.

References: ISO31000

POOR VISIBILITY, COLLISION	MEDIUM 12	MEDIUM 11

Risk Treatments in Place: **Operator Mirrors**

The operator rear view mirrors fitted to this item of plant must be fully functional and kept clean at all times. There must always be at least one mirror on each side to provide rear vision to the operator to avoid striking bystanders and objects.

References: ISO14401.1, AS/NZS4024.1201

FALLING, SLIPPING, TRIPPING	MEDIUM 12	LOW 6

Risk Treatments in Place: **Engine Bay Access**

Safe access and egress to the engine bay/work area(s) must be maintained at all times whilst this item of plant is in operation. It must be non slip, free from damage, located at a height so as to not cause undue body stresses and strains with three points of contact available to personnel at all times.

All personnel must -
1. Always face the item of plant during access and egress.
2. Always maintain three points of contact during access and egress.
3. Never carry an object(s) in his/her hand(s) during access and egress.
4. Never jump off machine.

References: AS5327

ELECTRIC SHOCK, BURNS	MEDIUM 12	LOW 6

Risk Treatments in Place: **Battery Cover**

All batteries fitted to this item of plant are constrained to prevent displacement & fitted with a permanent sturdy cover which allows for ventilation. The constraint and cover must be present and fully functional and serviceable at all times whilst this item of plant is in operation.

References: AS/NZS4024.1201

HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating
INSTABILITY, COLLISION	HIGH 22	MEDIUM 15
Risk Treatments in Place: Tyres The tyres and wheel components must be inspected as part of a "pre start" checklist. These inspections must be documented as part of your plant safety programme. **References:** ISO31000		
STRIKING, BURNS	HIGH 22	MEDIUM 15
Risk Treatments in Place: Hydraulic Damage The hydraulic hoses to this item of plant are free from damage and protected against damage arising from contact with the plant structure. Ensure that hoses are free from damage and that protection is in place at all times whilst this item of plant is in operation. Inspection of the hydraulic hoses and protection system should be conducted regularly and documented as part of your plant safety programme. **References:** AS2671, AS4024, ISO4413		
CRUSHING	HIGH 22	MEDIUM 15
Risk Treatments in Place: ROPS Damage The Roll Over Protective Structure (ROPS) fitted to this item of plant must remain free from damage at all times whilst this item of plant is in operation. **References:** AS2294, ISO3471		
OPERATIONAL MALFUNCTION	HIGH 22	LOW 2
Risk Treatments in Place: Major Fluid Leaks This item of plant must remain free from leaks at all times whilst in operation (this includes engine, transmission, cooling system, air, fuel, drive line, wheel hubs, steering and hydraulics). Development of a major leak will require this item of plant to be stood-down until repaired. Minor leaks detected must be repaired within 1-14 days. **References:** ISO31000		
CRUSHING	HIGH 22	LOW 5
Risk Treatments in Place: Lift Tynes The fork tynes fitted to this item of plant are free from structural damage including deformation. If at anytime the fork tynes do become damaged including deformation then operation must cease and a competent person carry out the necessary repairs prior to operating item of plant again. **References:** AS2359		
OPERATIONAL MALFUNCTION	HIGH 21	MEDIUM 15
Risk Treatments in Place: Service Records Service and maintenance records are available for this item of plant. These records must continue to be maintained and stored in a secure area as part of your plant safety management programme. This programme includes the undertaking of regular inspections concerning the general condition of the item of plant including (but not limited to) tyre condition, oil levels and wear and tear on critical items such as brakes and steering, etc. All OEM prescribed, scheduled and non scheduled maintenance must also be documented as part of these records and attended to within a risk management framework. **References:** Work Health & Safety Act & Regulations-		
POOR VISIBILITY	MEDIUM 9	LOW 4
Risk Treatments in Place: Windows & Screens Ensure the cabin/work area safety glass windows and screens are kept clean and free from cracks and other damage at all times whilst this item of plant is in use. **References:** ISO20474- , AS/NZS4024.1201		

SECTION 6 IMAGES AND NOTES

IMAGES

RISK MANAGEMENT REPORT

TYPE	Loader, Tool Carriers	**Report Number**	CEA 20200226-1120
MAKE	JCB	**Date**	26-Feb-2020
MODEL	426 HT	**Created By**	Chris Kane
SERIAL NUMBER	2275082	**Assessor**	Chris Kane
ENGINE NUMBER	22378561	**Assist. Assessor(s)**	
		Owner	CEA Brisbane
		Assessment Purpose	Sale
		State	QLD

PURCHASER ACKNOWLEDGEMENT

I the undersigned acknowledge that I have read and understand the risk management report described above. I also acknowledge that I have recieved a copy of this risk management report. I also acknowledge that I am authorised to sign on behalf of the purchaser.

Name L. GRAHAM

Company Name FLEXIHIRE

Position MANAGER

Signature

Date 02/03/2020

The manufacturer's operational & maintenance handbooks have been supplied,
(circle one) YES NO (initial) _____

Please transfer this assessment to my Plant Assessor membership as a (circle one) HIRE / PLANT IN USE assessment.
My Plant Assessor email is _____