

Coffee Express 100 Multi Coffee Express Harvester

SERVICE MANUAL

Part number 48149549

English

May 2018

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SERVICE MANUAL

Coffee Express 100 Multi Pull-Type Harvester [PRCYE100KHPB00399 -]

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INTRODUCTION

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INTRODUCTION

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Safety rules


Personal safety





This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible death or injury.

Throughout this manual you will find the signal words DANGER, WARNING, and CAUTION followed by special instructions. These precautions are intended for the personal safety of you and those working with you.

Read and understand all the safety messages in this manual before you operate or service the machine.

 DANGER indicates a hazardous situation that, if not avoided, will result in death or serious injury.

 WARNING indicates a hazardous situation that, if not avoided, could result in death or serious injury.

 CAUTION indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.

FAILURE TO FOLLOW DANGER, WARNING, AND CAUTION MESSAGES COULD RESULT IN DEATH OR SERIOUS INJURY.

Machine safety

NOTICE: Notice indicates a situation that, if not avoided, could result in machine or property damage.

Throughout this manual you will find the signal word Notice followed by special instructions to prevent machine or property damage. The word Notice is used to address practices not related to personal safety.

Information

NOTE: Note indicates additional information that clarifies steps, procedures, or other information in this manual.

Throughout this manual you will find the word Note followed by additional information about a step, procedure, or other information in the manual. The word Note is not intended to address personal safety or property damage.

Safety rules

Standard safety precautions

Be informed and notify personnel of the laws in force regulating safety, and provide documentation available for consultation.

- Keep working areas as clean as possible.
- Ensure that working areas are provided with emergency boxes. They must be clearly visible and always contain adequate sanitary equipment.
- Fire extinguishers must be properly identified and always be clear of obstructions. Their efficiency must be checked on a regular basis and personnel must be trained on proper interventions and priorities.
- Keep all emergency exits free of obstructions and clearly marked.
- Smoking in working areas subject to fire danger must be strictly prohibited.

Prevention of injury

- Wear suitable work attire and safety glasses with no jewelry such as rings and chains when working close to engines and equipment in motion.
- Wear safety gloves and goggles when performing the following operations:
 - Topping off or changing lubrication oils.
 - Using compressed air or liquids at a pressure greater than **2 bar (29 psi)**.
- Wear a safety helmet when working close to hanging loads or equipment working at head level.
- Always wear safety shoes and fitting clothes.
- Use protection cream for hands.
- Change wet clothes as soon as possible.
- In the presence of voltages exceeding **48 – 60 V**, verify the efficiency of the ground and mass electrical connections. Ensure that hands and feet are dry and use isolating foot boards. Workers should be properly trained to work with electricity.
- Do not smoke or start an open flame close to batteries and any fuel material.
- Place soiled rags with oil, diesel fuel or solvents in specially provided anti-fire containers.
- Do not use any tool or equipment for any use other than what it was originally intended for. Serious injury may occur.
- If running an engine indoors, make sure there is a sufficient exhaust fan in use to eliminate exhaust fumes.

During maintenance

- Never open the filler cap of the cooling system when the engine is hot. High temperature liquid at operating pressure could result in serious danger and risk of burn. Wait until the temperature decreases under **50 °C (122 °F)**.
- Never add coolant to an overheated engine and use only appropriate liquids.
- Always work when the engine is turned off. Certain circumstances require maintenance on a running engine. Be aware of all the risks involved with such an operation.
- Always use adequate and safe containers for engine fluids and used oil.
- Keep engine clean of any spilled fluids such as oil, diesel fuel, and or chemical solvents.
- Use of solvents or detergents during maintenance may emit toxic vapors. Always keep working areas aerated. Wear a safety mask if necessary.
- Do not leave soiled rags that may contain any flammable substances close to the engine.
- Always use caution when starting an engine after any work has been performed. Be prepared to cut off intake air in case of engine runaway.
- Never disconnect the batteries while the engine is running.
- Disconnect the batteries prior to performing any work on the equipment.

- Disconnect the batteries to place a load on them with a load tester.
- After any work is performed, verify that the battery clamp polarity is correct and that the clamps are tight and safe from accidental short circuit and oxidation.
- Before disconnecting any pipelines (pneumatic, hydraulic, fuel pipes, etc.), verify that all pressure has been released. Take all necessary precautions bleeding and draining residual pressure. Always wear the proper safety equipment.
- Do not alter the lengths of any wires.
- Do not connect any electronic service tool to the engine electrical equipment unless specifically approved by CASE IH.
- Do not modify the fuel system or hydraulic system unless approved by CASE IH. Any unauthorized modification will compromise warranty assistance and may affect engine operation and life span.

For engine equipped with an electronic control unit

- Do not weld on any part of the equipment without removing the control unit.
- Remove the in case of work requiring heating over **80 °C (176 °F)**.
- Do not paint the components and the electronic connections.
- Do not alter any data filed in the electronic control unit driving the engine. Any manipulation or alteration of electronic components will void engine warranty assistance and may affect the correct working order and life span of the engine.

Respect of the Environment

- Respect of the environment should be of primary importance. Take all necessary precautions to ensure personnel's safety and health.
- Inform the personnel of the laws regarding the dispensing of used engine fluids.
- Handle batteries with care, storing them in a well ventilated environment and within anti-acid container.

Safety rules

General safety regulations

General Aspects

- Strictly follow repair and maintenance procedures.
- Do not wear rings, wrist watches, jewelry, accessories, unbuttoned items of clothing, unsecured clothing like ties, torn clothing, scarves, or open jackets or shirts with open zippers that could get caught in moving parts. Use approved safety clothing, such as anti-slip footwear, sleeves, protective goggles, helmets, etc.
- Wear safety goggles with side shields when cleaning parts using compressed air.
- Worn or damaged cables and chains are not reliable. Do not use these elements in lifting or towing operations.
- Use regulation safety equipment, such as approved eye protection, helmets, clothes, sleeves, and special footwear whenever you are welding. All individuals near the welding process must use regulation eye protection. Never look at the welding arc without using suitable eye protection.
- Never perform any repairs on the machine if there is someone in the operator seat, except when the person is a qualified operator who is helping with the service to be performed.
- Never operate the machine or use accessories from a place other than the operator seat or next to the machine when operating the fender switches.
- Never perform any operations on the machine with the engine running, except when specifically instructed to do so. Shut down the engine and release all the pressure from the hydraulic circuits before removing covers, cases, valves, etc.
- You must conduct all repair and maintenance operations with the utmost care and attention.
- Disconnect the batteries and put warning labels on all of the controls to warn that the machine is being repaired. Lock the machine and all the equipment that you remove.
- Never check or fill the fuel tank or batteries or use starting fluid when you are smoking or near a naked flame, because these fluids are flammable.
- The fuel filling gun must remain in contact with the filler neck. Maintain the contact until the fuel stops flowing into the tank in order to avoid sparks caused by static electricity build-up.
- To transport a faulty machine, use a trailer or a low loader platform trolley, if available.
- To load and unload the machine from the mode of transportation, choose a flat area that offers firm support for the wheels of the truck or trailer. Securely fasten the machine to the platform of the trailer or truck, in accordance with the transporter's requirements.
- Always use hoist mechanisms with an appropriate capacity for lifting or moving heavy components.
- Chains must always be securely fastened. The fastening device must have sufficient capacity to support the intended load. It is prohibited for bystanders to be near the fastening position.
- The work area must always be clean and dry. Clean it immediately if any water or oil is spilled.
- Never use gasoline, diesel, or other flammable liquids for cleaning. Use only non-toxic solvents.
- Do not allow cloths soaked with oil or grease to accumulate because they can cause a fire risk. Always keep these cloths in a metal container.

Starting

- Never start the engine in enclosed spaces that are not equipped with a suitable exhaust system or gas-extraction system.
- Never bring your head, body, arms, legs, feet, hands, or fingers close to fans or rotating belts.

Engine

- Always loosen the radiator cap slowly before removing it, in order to dissipate the system pressure. You must top up the coolant with the engine stopped.
- Do not fill up the fuel tank when the engine is running.
- Never adjust the fuel injection pump when the machine is in motion.

- Never lubricate the machine when the engine is running.

Electrical systems

- If it is necessary to use auxiliary batteries, you must connect the cables on both sides as follows: (+) to (+) and (-) to (-). Avoid causing the terminals to short circuit. The gas that the batteries release is highly flammable. During charging, leave the battery compartment open to improve ventilation. Avoid sparks and naked flames near the battery. Do not smoke.
- Do not charge the batteries in enclosed spaces.
- Always disconnect the batteries before carrying out any type of servicing on the electrical system.

Hydraulic system

- A little fluid coming out of a small bore could be almost invisible, but strong enough to penetrate the skin. For this reason, never use your hands to check for leaks. Instead, use a piece of cardboard or wood. If any fluid penetrates your skin, seek medical assistance immediately. Failure to seek immediate medical assistance could result in serious infections or dermatitis.
- Always read the system pressure using suitable gauges.

Wheels and tires

- Make sure that the tires are correctly inflated at the pressure specified by the manufacturer. Inspect the rims and tires regularly for any damage.
- Remain next to the tire when filling it with air.
- Only check the pressure when the platform is unloaded and the tires are cold, in order to prevent inaccurate readings caused by overpressure.
- Never cut or weld a rim with a full tire fitted.
- To remove the wheels, lock both the front and rear wheels of the machine. Lift the machine. Install stable and secure supports under the machine, as per the legislation in force.
- Deflate the tire before removing any objects that may be caught in the tire tread.
- Never inflate tires using flammable gases, as they could cause explosions and injure bystanders.

Remove and install

- Lift and handle all heavy components using hoist devices of appropriate capacity. You must suspend the parts using suitable hooks and slings. Use the hoist eyes provided for this purpose. Be careful if there are any bystanders near the hoisted load.

Safety rules

Health and safety precautions

Many of the procedures involved in machine maintenance and repair services involve physical hazards and other health risks. This section lists some of these hazardous procedures and the materials and equipment associated with them.

Acids and alkalis

Avoid splashing into your eyes and nose, or onto your skin and clothing. Wear suitable sleeves and protective goggles. Irritate and corrode the skin, eyes, nose, and throat. Causes burns. Do not inhale the fumes.

Adhesives and sealants

These are highly flammable. You must store them in no smoking areas. Use applicators when possible or secondary containers. The containers must be labeled.

Resin-based adhesives/sealants

Skin contact could result in irritation, dermatitis, and the absorption of toxic or harmful chemicals through the skin. Splashes could cause eye injuries. Ensure that there is adequate ventilation and avoid contact with the skin and the eyes. Follow the manufacturer's instructions.

Ensure that there is adequate ventilation as volatile harmful or toxic chemicals may be released.

Anti-freeze

These are highly flammable. You must store them in no smoking areas.

Anti-freeze can be absorbed through the skin in toxic or harmful quantities. Ingesting anti-freeze can cause death and you must seek medical assistance immediately.

Chemicals – General

You must always take care when using and handling chemicals such as solvents, sealants, adhesives, paints, foam resins, battery acids, anti-freeze, brake fluid, oils and greases. They may be harmful, toxic, corrosive, irritant, or highly flammable. They may also emit hazardous fumes or dust.

Do

Remove chemicals from skin and clothing as soon as possible after contact. Change very dirty clothes and make provision for cleaning them.

Read and strictly adhere to the safety recommendations on the chemical containers.

When working with chemicals, wash before breaks, and before eating, smoking, drinking, or using the bathroom. Keep work areas clean, organized, and free of spillages. Store according to local and national legislation. Keep chemicals out of the reach of children.

Do not

Do not mix chemicals, except in accordance with the manufacturer's instructions. Some substances could form other chemical substances that are toxic or harmful, emit toxic or harmful fumes, or become explosive after mixing. Do not spray chemicals, especially solvent-based chemicals, in enclosed spaces.

Do not apply heat or flames to chemicals, except in accordance with the manufacturer's instructions. Some are highly flammable or could release toxic or harmful fumes.

Do not leave containers open. The fumes emitted could accumulate in toxic, harmful, or explosive concentrations. Some fumes are heavier than air and will accumulate in confined areas, trenches, etc. Do not put chemicals in un-marked containers.

Do not clean your hands or clothes with chemicals. Chemicals, particularly solvents and fuels, dry out the skin and can cause irritation and dermatitis. Some can be absorbed through the skin in toxic or harmful quantities.

Do not use empty containers to store other chemicals, except when they have been cleaned under supervision. Do not attempt to sniff or inhale chemicals. Rapid exposure to high concentrations of fumes can be toxic or harmful.

Anti-corrosive protective material

These materials are varied and you must follow the manufacturers' instructions. They may contain solvents, resins, petroleum derivatives, etc. You must avoid contact with the skin and the eyes. You must carry out spraying with adequate ventilation and never in enclosed spaces.

Post

Dust, powders, or clouds may be irritant, harmful, or toxic. Avoid inhaling the chemical powders or dusts that result from dry abrasion services. Use respiratory protection if ventilation is not adequate.

Electric shock

Electric shocks result from the use of faulty electrical equipment or from incorrect use.

You must keep electrical equipment in good condition and test it frequently.

Electrical equipment must be protected by a fuse with an appropriate nominal capacity.

Use low-voltage equipment (**110 volt**) for work lights and inspection lights, wherever possible. Use pneumatic equipment instead of electrical equipment wherever possible.

In the event of electrocution:

- Turn off the electricity before approaching the victim.
- If that is not possible, push or pull the victim away from the source of the electricity using a dry, non-conductive material.
- If you have been trained, start giving first aid.
- Seek medical assistance.

Exhaust fumes

These fumes contain asphyxiating, toxic or harmful chemical substances. You must only run engines in adequate extraction or general ventilation conditions, and never in enclosed spaces.

Fiber insulation

The fibrous nature of cut surfaces and edges can cause skin irritation. In general, the effect is physical and not chemical. You must take precautions to avoid excessive skin contact. Take care when organizing your work methods. Wear sleeves.

Fire

Many materials relating to vehicle repair are highly flammable. Some release toxic or harmful fumes when burned.

Scrupulously observe the fire prevention safety recommendations when storing and handling flammable materials or solvents, particularly in the vicinity of electrical equipment or welding processes.

Before using any electrical or welding equipment, ensure that there is no risk of fire. Always have an appropriate fire extinguisher nearby when using welding or heating equipment.

Foams – Polyurethane

See fire. Used for soundproofing. Cured foams used in seat cushions and finishes. Follow the manufacturer's instructions.

Components that have not reacted are irritants and could be harmful to the eyes and the skin. Wear sleeves and protective goggles. Individuals with chronic respiratory illnesses, asthma, bronchial problems, or a history of allergic illnesses must not work with or be in proximity to uncured materials.

Components, fumes, and aerosol clouds can cause irritation and sensitization reactions, and may be toxic or harmful. You must apply these materials with adequate respiratory protection and adequate ventilation. Do not remove the respirator when you have finished spraying. Keep the respirator on until the fumes and clouds disperse.

Burning uncured components and cured foams can generate toxic and harmful fumes. Do not permit smoking, the presence of naked flames, or the use of electrical equipment during the application of foam, and until the fumes/clouds have dispersed. The hot cutting of cured or partially cured foam must be performed in an environment with a ventilation system with extraction.

Kerosene (Paraffin)

Ingesting kerosene can cause irritation to the mouth and throat. The greatest danger from ingesting kerosene is the possibility of breathing it into the lungs. Liquid contact dries the skin and can cause irritation or dermatitis. Splashes on the skin and in the eyes cause mild irritation.

Avoid contact with the eyes and the skin as far as possible and ensure that there is adequate ventilation.

Fuel oil (diesel fuel)

When the quantities are large or the exposure period is long, skin contact with fuel oils with a high boiling point can cause serious skin diseases, including skin cancer.

Gas cylinders

See fire. In general, gases, such as oxygen, carbon dioxide, argon, and propane, are stored in cylinders with pressures of up to **140 bar (2000 lb/in²)**. You need to take sufficient care when handling them to prevent physical damage to the cylinders and the valve accessories. The content of each cylinder must be clearly identified with suitable labels.

You must store the cylinders in a well-ventilated room, protected from ice, rain, and direct sunlight. You must not store combustible gases near to oxygen cylinders.

Be careful to prevent leaks from the cylinders and the gas lines, and to avoid ignition sources. Only qualified personnel may perform services using the cylinders.

General workshop equipment and tools

You must keep all equipment and tools in good condition and you must use the correct safety equipment whenever necessary.

Never use tools or equipment for any purpose other than that for which they are intended. Never overload equipment such as hoists, jacks, chassis bases and axles, or hoisting slings. The damage caused by overloading does not always appear immediately and could cause a fatal accident the next time that the equipment is used.

Do not use faulty or damaged equipment or tools, particularly high-speed equipment, such as emery wheels. A damaged emery wheel can disintegrate suddenly and cause serious injury. Use protective goggles whenever you use equipment for grinding, cutting, polishing, or sandblasting.

Oil test equipment, lubrication test equipment, and high-pressure air test equipment, in accordance with local legislation

Always keep high-pressure equipment in good condition and carry out regular maintenance, particularly on connections and fittings. Never point a high-pressure nozzle at the skin as the fluid can cause serious injuries.

Legal aspects

Various laws and regulations lay down the health and safety requirements for working with materials and equipment in workshops. Always observe the regulations and laws in force in the country in which you are working.

Workshops must comply with the relevant regulations and laws. Consult the local supervisory authorities or related government bodies if you are in any doubt.

Lubricants and greases

Avoid prolonged or recurrent contact with mineral oils, particularly used oils.

Thoroughly wash the skin after tasks using oil. Do not use gasoline, paraffin, or other solvents to remove oil from the skin. Lubricants and greases can cause mild eye irritation.

You must avoid repeated or prolonged skin contact by wearing protective clothing where necessary. Do not allow your work clothes to become contaminated with oil. Wash or dry clean work clothes regularly. Discard oil-soaked shoes.

Do not use used engine oil as a lubricant or for applications where it might come into contact with the skin.

Paints

You should preferably perform spraying in a ventilated cab with an exhaust system to remove the fumes and spray from the breathing area. Individuals working in cabs must use respiratory protection. Personnel carrying out small-scale repair work must use respirators with an air supply.

Solvents

Contact dries out the skin, and prolonged or recurrent contact can cause irritation and dermatitis. Some can be absorbed through the skin in toxic or harmful quantities. Splashes into the eyes can cause serious irritation and even lead to blindness.

Wear protective sleeves, protective goggles and protective clothing. Ensure that there is good ventilation during use, avoid inhaling smoke, fumes, and spray clouds, and keep containers securely closed. Do not use in enclosed spaces.

Do not apply heat or flame, except in accordance with specific and detailed instructions from the manufacturer.

Arc welding

This process emits a high level of ultraviolet radiation that can burn the eyes and skin of the welder and of other people nearby. Gas-protected welding processes are particularly dangerous in this respect. Personal protection is mandatory. Barriers to protect other people are also necessary. You also need to use suitable eye and skin protection because of metal splashes.

The heat of arc welding will produce gases and fumes from the metals that are being melted, and from the coatings applied to or contamination on the worked surfaces. These gases and fumes may be toxic and you must avoid inhaling them. You may need to use ventilation with extraction to remove smoke from the work area, particularly in cases where there is not enough general ventilation or in places where a considerable amount of welding is expected to take place. In extreme cases, where adequate ventilation cannot be guaranteed, you may need to use respirators with an air supply.

Consumables

Fluids and lubricants

Shaker box

Capacity	3.25 I
Specifications	CASE IH AKCELA GEAR LUBE 135 H EP 85W-140, API GL-5

Intensity Box

Capacity	1,75 I
Specifications	CASE IH AKCELA GEAR LUBE 135 H EP 85W-140, API GL-5

Reverse box

Capacity	1,75 I
Specifications	CASE IH AKCELA GEAR LUBE 135 H EP 85W-140, API GL-5

Grease fittings

Joints and grease fittings (ALL)

Capacity	As needed
Specifications	CASE IH AKCELA 251H EP MULTI-PURPOSE GREASE

Engine oil

(Total with oil filter change)

Capacity	7.0 I
Specifications	CASE IH AKCELA ENGINE OIL 15W-40 API CJ-4 CASE IH AKCELA NO. 1™ ENGINE OIL

Wheel reducers

(Hub of each rear wheel)

Capacity	1,3 I (Model 605 W2), 0,5 I (Model 603 W2)
Specifications	CASE IH AKCELA GEAR LUBE 135 H EP 85W-140, API GL-5

Wheel reducers

(Hub of each front wheel)

Capacity	1,1 I (Model 605 W2), 0,5 I (Model 603 W2)
Specifications	CASE IH AKCELA GEAR LUBE 135 H EP 85W-140, API GL-5

Reservoir for wind shield wiper

Capacity	As needed
Specifications	Clean water

Cooling system-

Total system capacity

Volume of coolant

Capacity	6.5 I
	6.0 I

Specifications	Clean water, free from contamination and with a pH of 6 to 9. Anti-corrosion specification DCA-465LFleetguard
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Hydraulic system

(Capacity of reservoir + system)

Reservoir capacity	55 l
System capacity	100 l
Specifications	CASE IH AKCELA AW100 HYDRAULIC FLUID ISO 100 — AW100

Fuel tank

(Total capacity)

Capacity	75 l
Specifications	DIESEL FUEL No. 2

Fuel system and tank*

(Total capacity)

Capacity	0.58 l
Specifications	CNH additive PN 71104731, package with 1.0 l

NOTE: * Clean the fuel system and tank: Every 400 hours of operation, with the fuel tank at 50%, add 0.58 liters of additive. Then top up the tank to the maximum level of diesel fuel. Run the machine to mix the fuel. For more information, refer to the operator's manual.

Hydraulic system oil physical properties

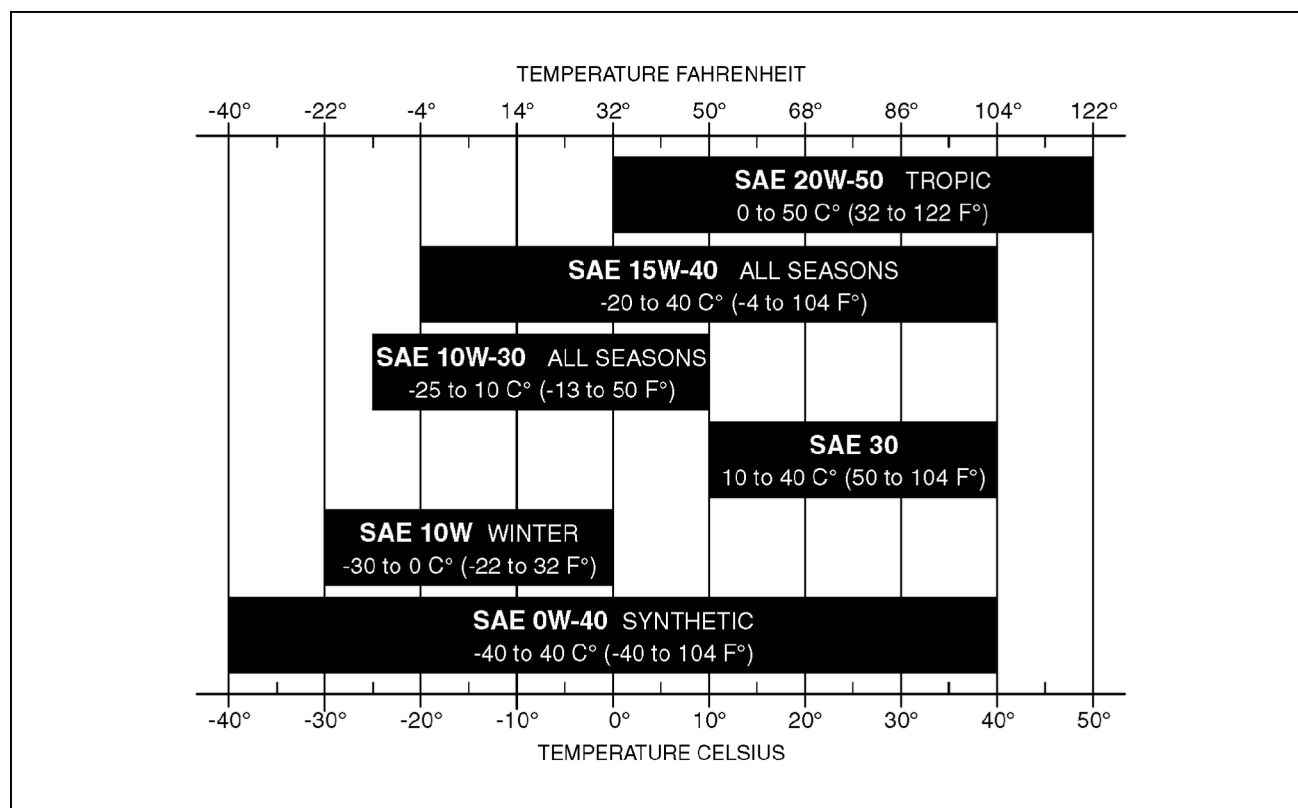
Appearance	Bright and clear
Density at 15 °C (IP 160)	0.880 - 0.890 (Typical 0.882)
Viscosity @ 40 °C (IP 171)	66 - 100
Viscosity @ 100 °C (IP 171)	Minimum = 11
Viscosity at maximum work temperature	Minimum = 13
Viscosity index (IP 226)	Minimum = 150
(%) of zinc in mass	0.04 %
Aniline point (IP2)	Minimum = 100 °C
Degree of demulsibility (ISO grau 68 - ASTM D1401)	40/37/3 (30) @ 54 °C
Degree of demulsibility (ISO grau 100 - ASTM D1401)	40/37/3 (30) @ 82 °C
Filtration ability (Denison TP-02100)	Approved
Corrosion protection (ASTM D665)	Approved - Distilled water

Engine Oil Selection

NOTICE: Do not put performance-enhancing additives or other additives in the oil in the engine sump. The oil change intervals given in this manual are according to tests with CASE IH Akcela lubricants.

CASE IH AKCELA NO. 1™ ENGINE OIL CJ-4 SAE 15W-40 is the engine oil recommended for use in your engine. CASE IH Akcela engine oil lubricates your engine correctly under all operating conditions.

Engine oil viscosity and temperature recommendations



RCPH10TLB002FAF 1

Power specification

Technical data of the harvester

Tractor	
Necessary power	55 kW (75 Hp)
Power take-off speed	540 RPM
Required speed range	0,4 km/h to 2 km/h
Minimum power take-off power	29 kW (40 Hp)
Lifting capacity	2000 kg
Number of splines on power take-off	6
Maximum width	1500 mm
Minimum alternator current	90 A

General specification

Technical data of the harvester

Other characteristics

Total Weight	4050 kg
Work declivity	12%
Number of operators needed	1
Tire calibration pressure	54 psi
Minimum travel speed	0.6 km/h
Picking height (maximum)	3800 mm
Tire (two)	105-80-18
Hydraulic system	156 l
Spacing between rows	3200 mm



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Consumables

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Specifications	CASE IH AKCELA GEAR LUBE 135 H EP 85W-140, API GL-5

Intensity box

Capacity	1,75 l
Specifications	CASE IH AKCELA GEAR LUBE 135 H EP 85W-140, API GL-5

Reverse box

Capacity	1,75 l
Specifications	CASE IH AKCELA GEAR LUBE 135 H EP 85W-140, API GL-5

Grease fittings

Joints and grease fittings (ALL)

Capacity	As needed
Specifications	CASE IH AKCELA 251H EP MULTI-PURPOSE GREASE

Wheel reducers

(Hub of each rear wheel)

Capacity	1,3 l (Model 605 W2), 0,5 l (Model 603 W2)
Specifications	CASE IH AKCELA GEAR LUBE 135 H EP 85W-140, API GL-5

Hydraulic system

(Capacity of reservoir + system)

Reservoir capacity	55.0 l
System capacity	156.0 l
Specifications	CASE IH AKCELA AW100 HYDRAULIC FLUID ISO 100 — AW100

Hydraulic system oil physical properties

Appearance	Bright and clear
Density at 15 °C (IP 160)	0.880 - 0.890 (Typical 0.882)
Viscosity @ 40 °C (IP 171)	66 - 100
Viscosity @ 100 °C (IP 171)	Minimum = 11
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Filtration ability (Denison TP-02100)	Approved
Corrosion protection (ASTM D665)	Approved – Distilled water



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Rear axle system

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