

# WINTER OFFER

*Expertise and Service everyday!*

**October, 2021**

## MAINTENANCE PARTS



Check the performance of your machine  
to cope with winter!



# WINTER OFFER



MANITOU advise keeping your machine in optimum working conditions during severe season.

## MAIN SPARE PARTS TO MAINTAIN DURING WINTER

### WINDSCREEN ENVIRONMENT

### BATTERIES

### HYDRAULIC OIL & ANTIFREEZE

### LED LIGHTING



When driving a handling machine, the driver's visibility is essential for both his safety and that of his working environment.

In winter, when weather conditions are difficult and days are getting shorter, it is essential to have a machine equipped with:

- Tank filled with windshield washer fluid suitable for winter conditions
- New and cleaned wiper blades
- Windshield without splinters or cracks on the glass part

### Ice washing Special Winter



#### Product description

Ready to use. Special Winter - 20° for defrosting glass parts. Based on fully biodegradable bioalcohol. Contains a bittering agent against the risk of ingestion

- Winter: used in its pure state, anti-ice and anti-freeze function up to -20°C.

- Summer: cleans, degreases, anti-static and anti-mosquito. Ensures perfect visibility.

- 5L or 1L canister packaging.

Designation

P/N

Ice washing - 5 L canister

**486424**

Ice washing - 1 L canister

**490402**

# WINTER OFFER



**MANITOU** advise keeping your machine in **optimum working conditions** during severe season.

## MAIN SPARE PARTS TO MAINTAIN DURING WINTER

WINDSCREEN ENVIRONMENT

BATTERIES

HYDRAULIC OIL & ANTIFREEZE

LED LIGHTING

### Windscreen wiper



*Wipers are essential for good visibility when driving your Manitou machines.*

*In the fields as well as on the road, bad weather, rain and sludge reduce the vision of your workspace.*

*You must have a clean windshield to maintain an optimal field of vision from your driver's seat and continue to work safely.*

*Your windshield wipers are subject to heavy wear and tear. Rubber blades are in the front line of outdoor conditions: frozen winter temperatures and frozen windshields, wide temperature variations throughout the year: the blades wear naturally.*

#### **When to change your windshield wipers?**

*Do you see streaks or veils appear on your windshield, the brushes are cut or lift? Think about your safety: change your windshield wipers at the first signs of wear, not to damage your windshield and avoid risks due to a lack of visibility.*

#### **Why using genuine Manitou windshield wipers?**

*Selected for the quality of their materials and their adapted design, the rubber blades perfectly follow the shape of your windshield for optimal wiping.*

*Manitou wiper blade arm stiffeners provide the necessary strength for daily use, regardless of the frequency of weather conditions.*

*To be sure to use windshield wipers that fit your windshield and are high quality, use Genuine Manitou windshield wipers.*





# WINTER OFFER



**MANITOU** advise keeping your machine in **optimum working conditions** during severe season.

## MAIN SPARE PARTS TO MAINTAIN DURING WINTER

WINDSCREEN  
ENVIRONMENT

BATTERIES

HYDRAULIC OIL &  
ANTIFREEZE

LED LIGHTING

### Windscreen range

*An unobstructed field of view inside your handling machine and the quality of the glazing contribute to your working comfort and safety.*

***The windscreen, your shield to optimize your work in winter!***

*The windscreen is a component of the bodywork and contributes to passive resistance in the event of an impact. Constantly exposed to splashes and the risk of falls during handling, he is also exposed to extreme outside temperatures, which are also a risk for the driver.*

*All our front windows are made of tempered glass: 5 times stronger than a conventional glass, in case of breakage it breaks into a multitude of harmless debris. In winter, in addition to lack of visibility and visual discomfort, an impact can spread at any time. Stone projections, bad weather, impact of branches and crossing irregular ground can transform a simple crack into a complete breakage of the wind shield.*



*In extreme cold, water infiltration and freezing in a single chip can cause a whole wind shield to crack, accelerated by the thermal shock when heating the cabin.*

*Don't let winter conditions overtake you, keep your Manitou in good visibility!*

***Why order a Manitou original glass?***

*Manitou windows have been designed for their quality and perfectly fit to your cabin. The quality of the glass ensures a good vision in line with the design of the machine.*

*Manitou windows comply with European regulation 43R, which requires precise and approved marking on each window. You will find there: name of the manufacturer Manitou, regulatory numbers corresponding to the country of origin of manufacture and the approval laboratory, glazing safety technique and Manitou reference.*

***If you have any questions, ask your dealer for advice.***



# WINTER OFFER



MANITOU advise keeping your machine in optimum working conditions during severe season.

## MAIN SPARE PARTS TO MAINTAIN DURING WINTER

WINDSCREEN ENVIRONMENT

**BATTERIES**

HYDRAULIC OIL & ANTIFREEZE

LED LIGHTING



In your handling work, your Manitou machine is subject to many external stresses and strains. In winter, extreme temperatures, vibrations, repeated starts and bad weather cause energy and heat losses that draw from the charge level of your battery.

In addition, the heat waves of the summer have severely weakened the batteries: the heat causes self-discharge, which accelerates their ageing. In hot weather, the machines are used with air conditioning, even for short distances. The batteries are therefore heavily stressed and do not have time to recharge.

When winter comes, start your engine requires more energy from batteries that have already been well proven. One night of freezing with aged battery, and it's out of order.

### Starter batteries - 12V



12 V starter batteries, for professional use, recognized for their performance. High reliability, optimal power and adapted to the needs of your engine, Manitou batteries have a long service life.

- Maintenance-free
- 24-month guarantees
- Ready to use: clean and practical to handle!
- Perfect fit in battery box

| Designation                         | P/N           |                                      |               |                                       |               |  |               |
|-------------------------------------|---------------|--------------------------------------|---------------|---------------------------------------|---------------|--|---------------|
| 44 Ah / 360 A<br>207 x 175 x 190 mm | <b>609940</b> |                                      |               |                                       |               |  |               |
| 47 Ah / 450 A<br>207 x 175 x 190 mm | <b>546193</b> | 77 Ah / 760 A<br>278 x 175 x 165 mm  | <b>546194</b> | 110 Ah / 750 A<br>348 x 175 x 232 mm  | <b>247068</b> | 145 Ah / 1000 A<br>360 x 253 x 232 mm                                      | <b>745150</b> |
| 62 Ah / 540 A<br>242 x 175 x 190 mm | <b>80147</b>  | 95 Ah / 680 A<br>306 x 173 x 222 mm  | <b>485215</b> | 120 Ah / 850 A<br>510 x 175 x 195 mm  | <b>737688</b> | 180 Ah / 1000 A<br>513 x 223 x 223 mm                                      | <b>283831</b> |
| 74 Ah / 680 A<br>278 x 175 x 175 mm | <b>275727</b> | 105 Ah / 850 A<br>315 x 175 x 205 mm | <b>689092</b> | 135 Ah / 1000 A<br>513 x 175 x 209 mm | <b>505534</b> | 180 Ah / 1235 A<br>513 x 223 x 223 mm                                      | <b>303985</b> |
| 74 Ah / 680 A<br>278 x 175 x 190 mm | <b>546190</b> | 110 Ah / 900 A<br>348 x 175 x 235 mm | <b>282080</b> | 140 Ah / 800 A<br>513 x 189 x 223 mm  | <b>544200</b> | <i>Gehl and MustangByManitou battery range available from your dealer.</i> |               |

# WINTER OFFER



**MANITOU** advise keeping your machine in **optimum working conditions** during severe season.

## MAIN SPARE PARTS TO MAINTAIN DURING WINTER

WINDSCREEN ENVIRONMENT

BATTERIES

**HYDRAULIC OIL & ANTIFREEZE**

LED LIGHTING

The hydraulic system is an essential component of your handling equipment. It is heavily solicited during each use. Manitou hydraulic oils are designed to keep your machine's circuit running in all weathers.

- Optimal performance
- Long life of the hydraulic system
- Working safety
- Anti-oxidation properties
- Pour point between  $-39^{\circ}$  and  $-63^{\circ}$
- Excellent thermal stability
- High shear strength
- Perfect cold flowability



### Hydraulic oil ISO VG22 Extreme cold



| Designation                                  | L              | P/N             |
|--|----------------|-----------------|
| <b>HYDRAU<br/>EXTREME COLD<br/>HV22 -45°</b> | 20 L canister  | <b>964854</b>   |
|  | 209 L canister | <b>964908</b>   |
| <b>HYDRAU BIO<br/>HEES 32 -22°</b>           | 20 L canister  | <b>52698506</b> |
|  | 209 L canister | <b>52698507</b> |

Recommended hydraulic fluid for all industrial truck lifting systems working at very low temperatures (e.g. refrigeration system).

- Exceptionally low pour point and cold viscosity: trouble-free start-up down to  $-45^{\circ}\text{C}$
- High shear strength
- Anti-wear and anti-corrosion additive for optimal protection of your equipment
- Compatible with mineral hydraulic oils

### Coolant -37°



| Designation  | P/N           |
|--------------|---------------|
| 5 L canister | <b>894967</b> |

High quality ready-to-use liquid to optimize cooling performance and obtain protection down to  $-37^{\circ}$ . Inhibition system based on the use of organic molecules that create a protective film on the metal in contact.

- Protects engines and metal radiators against corrosion.
- Improves heat transfer to the coolant.
- Can be used in all seasons.



# WINTER OFFER



MANITOU advise keeping your machine in optimum working conditions during severe season.

## MAIN SPARE PARTS TO MAINTAIN DURING WINTER

WINDSCREEN  
ENVIRONMENT

BATTERIES

HYDRAULIC OIL &  
ANTIFREEZE

LED LIGHTING



You work in all weathers, early in the morning and late in the evening. The lighting of your machine is essential: it allows you to see, for the proper operation of the machine and the operations to be carried out, while having the safety of being seen.

We developed a range of lighting to increase the accuracy and efficiency of your work in the dark. LED work lights cover a very wide field of view with exceptional light intensity and very low consumption (3 to 4 times less than halogen). LED headlights also have a longer life span. For more efficiency, equip your machine with LED lighting!

### ● Led lighting range

#### LED Work light - Lateral



Designation

P/N

LED work light

52540901

#### LED Work light



Designation

P/N

LED work light

52536784

LED work light

947997

#### LED Work light - Front



Designation

P/N

LED light - Right

52562044

LED light - Left

52562043

Contact your dealer to find p/n associated to your machine type

