

VACMOBILE WOVP PUMPS

OIL CHANGING INSTRUCTIONS

The Wonchang WOVP vacuum pump used in the Vacmobile 4S heavy duty machine must be filled with oil prior to use. The oil should also be changed every 500 operating hours, or sooner if seen to be badly contaminated in the oil level indicator. To drain old oil and fill the pump with fresh oil, proceed as follows:

Oil drainage

STOP THE PUMP. Oil must only be drained with the pump stopped.

The pump's oil capacity will be marked on the pump nameplate. Find a suitable container that will catch this volume of oil and place it under the pump's oil drain port.

When the oil has been completely drained, replace the plug and tighten it firmly.

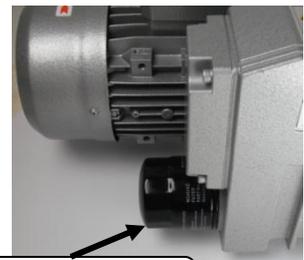
Oil drain plug. Undo with
27 mm (1 1/16") AF wrench



The external oil filter should be replaced at every oil change. As some oil will drip when the oil filter is removed, place a suitable collection tray under the oil filter.

Clean the pump's sealing face for the filter and screw on a new filter firmly hand tight.

External oil filter



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The oil filler cap also serves as a mounting point for the back pressure gauge used to monitor the condition of the pump's internal oil mist separator. As the gauge may disguise the position of the oil filler port, proceed as follows when adding oil.

Oil filling

STOP THE PUMP. Oil must only be added with the pump stopped.

The exhaust port elbow should be removable by hand. Unscrew the elbow and put it to one side for refitting later.



Unscrew the back pressure gauge/oil filler cap. This should also be hand tight and removable by turning the gauge case anti-clockwise. If tight, apply a 30 mm (1 3/16") AF spanner to the oil filler cap the gauge is attached to.



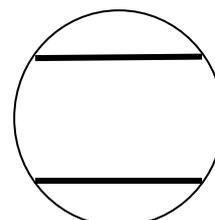
Fit a small funnel to the oil fill port and add the correct grade of vacuum pump oil.

For cooler climates, with ambient temperature under 15°C (60°F) use ISO68 (SAE 20). For warmer climates use ISO100 (SAE 30).



DO NOT OVER FILL. Fill to between the MIN and MAX marks.

MAX



MIN

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Replace the back-pressure gauge/oil filler cap. Hand tight will be sufficient.



Replace the exhaust elbow. Screw in hand tight only and point the opening downwards at about 45°. Angling the exhaust downwards will reduce dust entry into the pump when it is stopped or running at high vacuum (when there is no air flow).



Face the opening downwards
at approximately 45°

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