

TIPS FOR MOVING-FLOOR DRIVERS

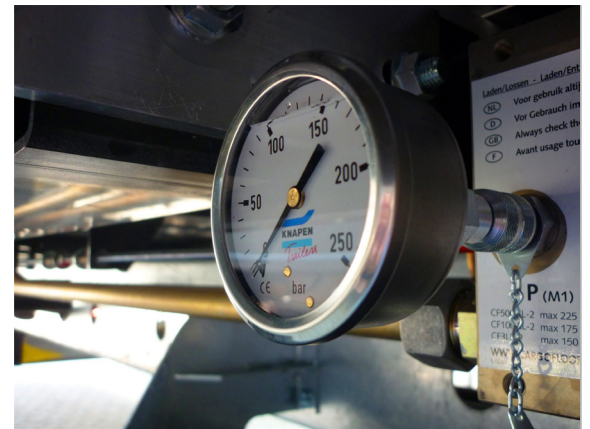
Oil pressure, knowledge is power

Have you ever been stuck with a loaded moving-floor trailer whose floor won't unload? It costs a lot of money and it causes your customers and your drivers unnecessary hassle. It is an annoying situation that in most cases is easy to prevent. A dirty floor is often the cause, as this means the unloading needs too much power. Knapen Trailers' experts will give you advice about how to determine how contaminated your floor is in good time:

The extent of contamination determines the oil pressure level.

The oil pressure tells you just how contaminated your floor is.

You can measure this oil pressure using a pressure gauge. Knapen Trailers fits every new moving-floor trailer with a pressure gauge free of charge as standard. You will find the pressure gauge on the left (when you face the direction of travel) fitted to the valve block of your moving-floor system.



First of all it is important that you know that there are two factors that affect the oil pressure in your system:

1. The resistance of the floor
2. The weight of the load

For the floor to function there has to be sufficient oil pressure to overcome the above factors. In the case of a heavy load or a high level of contamination you therefore need a lot of pressure. This is not infinite, as a moving-floor

system has a safeguard at a maximum of 225 bar. If greater pressure is required, your load will not be going anywhere... So a clean floor (low resistance) is important if you want to always be able to unload properly.

In the case of an unladen trailer the oil pressure is a lot lower, as in that case only the resistance of the floor (in other words, the degree of contamination) has to be overcome. So you can measure the degree of contamination by switching on your moving floor when your trailer is empty. It is important that you use the measurement values below:

- 30 - 40 bar: This is the normal pressure for an unladen trailer less than approx. 2 years old
- 40 - 60 bar: This is the normal pressure for an unladen more than approx. 2 years old

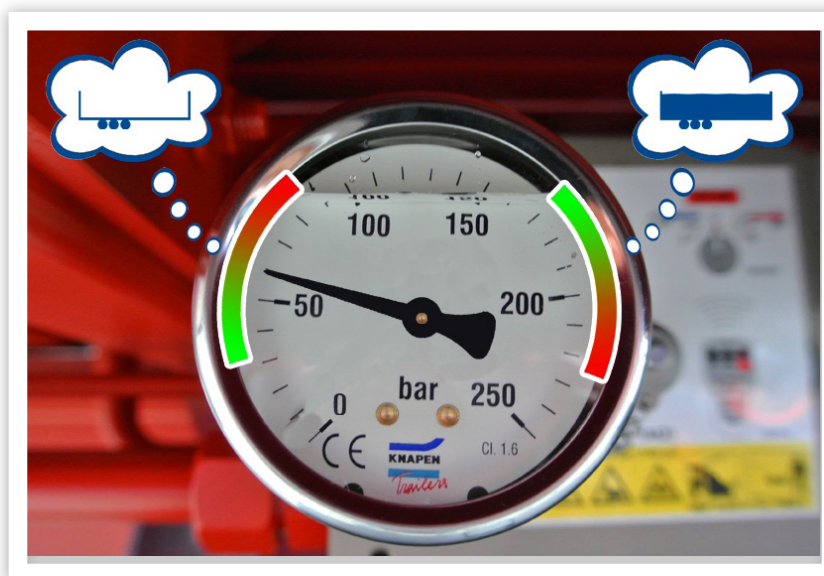
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If your pressure is 30 bar above these values, your floor is probably contaminated.

This means that your floor is unnecessarily producing heat and therefore is wearing out faster. It also means that the capacity of the floor has been reduced. After all, oil pressure is lost in overcoming the resistance caused by the contamination. So you should clean the floor or have it cleaned. [Your dealer](#) will be happy to give you advice about how to do this.

There will be a comprehensive explanation of how to clean your floor in the next newsletter.

Our advice is also to check the unloading pressure of your unladen trailer every week. This will show you any trends from week to week. You will know when your floor is ready to be cleaned so you will never be taken by surprise by a load that won't unload.



Reading the pressure gauge

Below are two examples to show you how to read the pressure gauge:

Example 1: When laden, you unload at 140 bar; when unladen, you unload at 45 bar.

You can derive two things from this:

1. Your floor has normal resistance, as the pressure is in the normal range.
2. The required pressure for unloading your load is $(140 - 45 =) 95$ bar.

Example 2: When laden, you unload at 215 bar; when unladen, you unload at 100 bar.

You can derive three things from this:

1. Your floor is heavily contaminated, is therefore producing unnecessary heat and is subject to wear.
2. The required pressure for moving your load is $(215 - 100 =) 115$ bar.
3. If the contamination in your floor increases further, you will have reached the maximum pressure of 225 bar with only 15 bar and your trailer will no longer be able produce enough power to unload.

If you do not yet have a pressure gauge on your moving-floor trailer, your dealer sells separate pressure gauges that are easy to fit yourself. They fit on every CF500-SL2 system and can be ordered under part number BHYCO10329.

Are you a driver of a moving-floor trailer with a handy tip for your colleagues? Send your tip to marketing@knapen-trailers.nl and you could see it featured in the next newsletter.