

# GRINDEX Information

1995-06-06

TECHNICAL BULLETIN

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From: Sören Eriksson, Technical Service Manager

Subject: **New type of oil**

Technical category: Shaft seal

Pumps concerned: All models

## Reason for change

In order to meet with the increasing environmental demands GRINDEX will use the **BP ENERPAR M006 paraffin oil** only in all pump models. It is a multi purpose transparent white oil, highly purified and have neither taste or odour. It is suitable also where ordinary mineral oil is unacceptable because of possible contamination risk.

## Time of change

From week 20, May, 1995.

## Visual identification

Serial numbers of pump models from when the above oil is being used, are listed below.

### Pump model

### Serial number

TRIO	A441, B001, C001, D125, E006, F0
MINEX	749142
MINETTE	627198
MINOR	517735
MAJOR	435655
MIDI	2889
MATADOR	5276
MAXI	1138



<u>Pump model</u>	<u>Serial number</u>
SALVADOR	6139
SENIOR, SANDY, SUPER	5548
SEMI,	310
SENATOR	458

### General requirements

It is very important to realize that the oil is not supposed to be completely undiluted. A certain amount of leakage can occur when the shaft seal is new, this does not mean that the shaft seal is defective. A new seal needs a certain time for running in. It is therefore advisable to check the oil one week after the start up. If the oil is free from water, no further action has to be taken. If the oil contains water, i.e. is emulsified (cream-like) or if the water has settled out, oil has to be changed. Check the oil again after one week to determine if shaft seal is in good conditions. If the oil is still miscoloured, pale, whitish, of high viscosity, or if any oil/water separation is noted, replace the lower shaft seal and change the oil.

Paraffin oil is becoming pale whitish like light milk at more than 2% of water content. Oil must never contain any abrasive properties.

### Filling up the oil housing

The oil chamber is a buffer zone between the motor and the pumped liquid. The oil main functions are: Lubrication, cooling and emulsification of leakage, to show the condition of the lower shaft seal. It is important that each pump model is filled with the specific amount of oil, as listed below. If the oil chamber is completely filled, the expansion pressure of the heated oil may force itself into the stator housing.

<u>Pump model</u>	<u>Amount litres</u>	<u>Amount US quarts</u>
TRIO	0.26	0.28
MINEX	0.33	0.35
MINETTE	0.45	0.48
MINOR, MAJOR	0.58	0.61
MIDI	1.25	1.32
MATADOR	1.15	1.22
MAXI	5.00	5.28
SALVADOR	0.35	0.37
SENIOR, SANDY, SUPER	0.45	0.48
SEMI, SENATOR	1.25	1.32

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