


## INTRODUCTION

This section describes how to change the oil and grease the crusher pedestal.

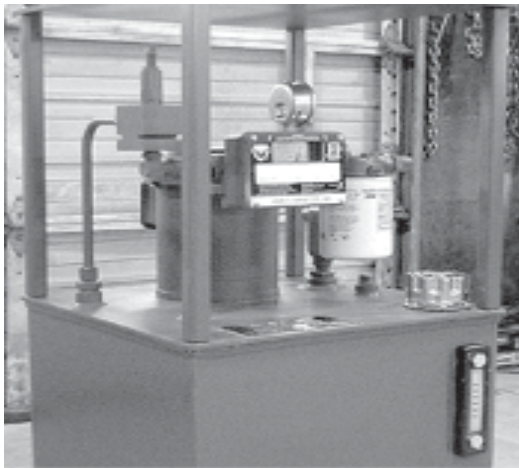
The pedestal oil filter should be changed every 100 hours of operation. The pedestal oil should be changed every 500 hours of operation. Use only Chevron EP2 ISO 68 Gear Compound (oil) or equivalent and any of the recommended filters. CEMCO recommends changing the oil while it is hot. Oil system capacities vary between 30 and 40 gallons. The oil tank holds approximately 28 gallons.

Mounting the oil tank below the pedestal level facilitates a gravity return.


 Lock out power to the crusher while changing the oil. Pedestal damage will occur quickly if the bearings are not bathed in oil while the crusher is running.

## FILTER CHANGE

The oil filter is mounted on the oil tank assembly next to the oil pressure gauge and flow meter.



*Oil tank assembly, filter, and gauges*

 A hydraulic pump only pumps flow; it does not pump pressure.

Simply remove the old filter and replace it with a new filter. A standard filter wrench may be neces-

sary. Tighten according to the instructions with the filter.

## RECOMMENDED FILTERS

Fram P7037  
LHA SPE-15-10  
NAPA 1551  
WIX 51551

## OIL CHANGE

1. Remove the oil drain plug and drain the oil. Follow EPA recommendations for used oil.
2. Replace the drain plug.
3. The filler cap acts as a vent. Every 100 hours, it is a good idea to remove the filler cap and chain at the split ring and immerse and rinse the cap in solvent to clean the filter inside the cap.
4. Add new oil until the oil level bulb on the tank reads full.
5. Replace the cap.



*Oil drain plug*

## PEDESTAL GREASE

The upper pedestal seal should be greased daily for the prevention of contaminate material or water from entering the upper shaft area. There is a grease zerk at the base of the crusher near where the frame meets the tub. Apply an adequate amount of grease through zerk to ensure positive grease flow through labyrinth seal. A positive grease flow is new grease flowing out and around the circumference of the top of the pedestal below the hub. Visually check for fresh grease in this area prior to operation. Use a grease that is waterproof, CEMCO recommends Chevron Delo EP-2 or equivalent.



*Upper seal grease zerk*

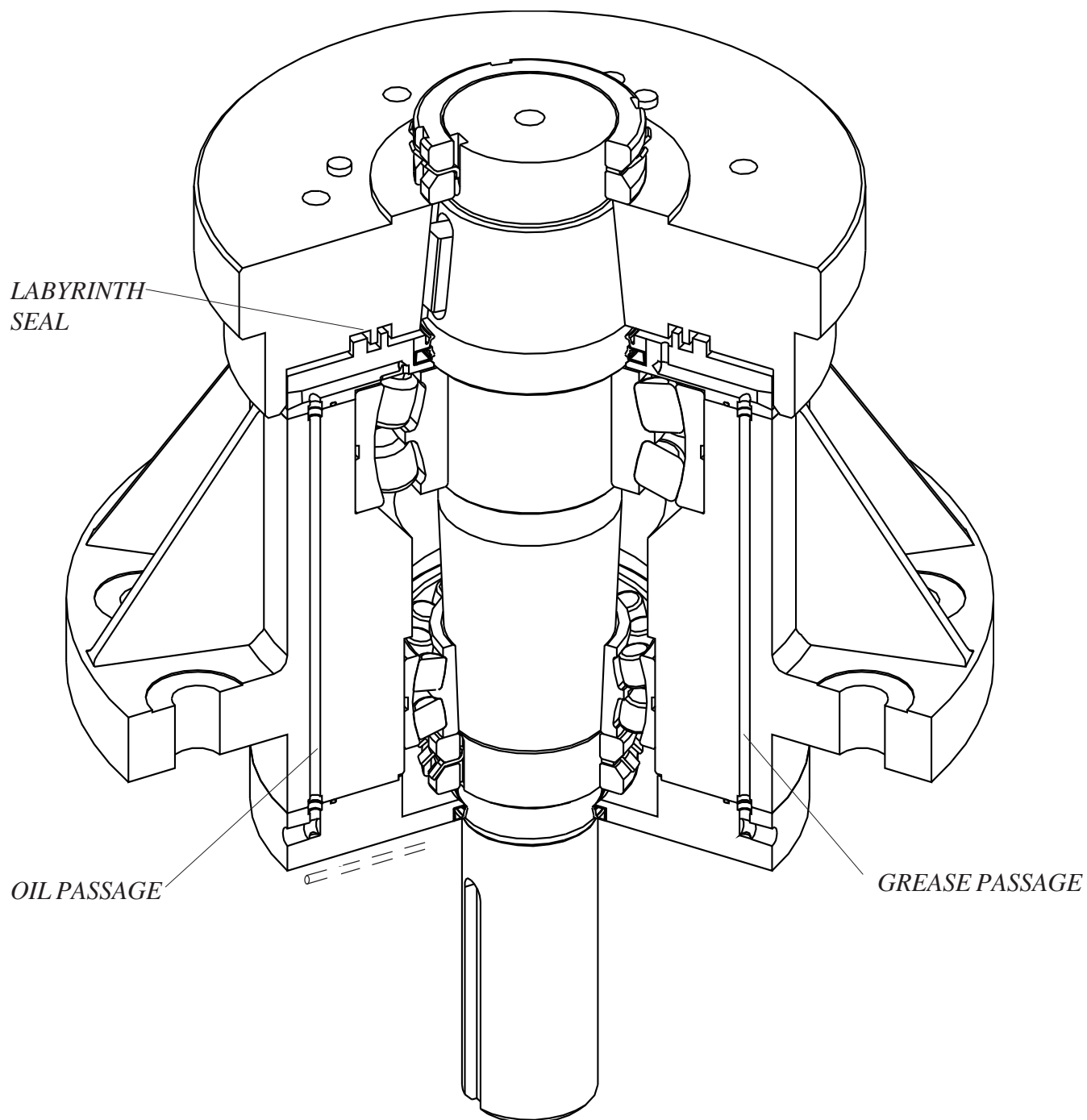
## LUBRICATION RECORDS

The TURBO VSI LUBRICATION RECORD on the last page is a good format for keeping track of lubrication. It also lists the recommended lubricants, filters and change intervals. Simply write down the date and hour meter reading in the first two columns. The person performing the maintenance should write his/her initials in the third column. The oil and filter change records include a row to “carryover” information from the previous sheet. Write the starting date and ending date for the sheet in the blanks provided in the lower right corner. Save all service records. A loose copy of this form for you to photocopy is provided with the enclosures.

# LUBRICATION GUIDELINES

## PEDESTAL SCHEMATIC

This cutaway schematic illustrates how oil and grease are delivered to the bearings and labyrinth seal respectively to prevent contaminate material from entering the upper shaft area.



# STANDARD OIL SYSTEM SCHEMATIC



 LOW OIL LEVEL   
SWITCH(TEMP)

 PRESSURE METER

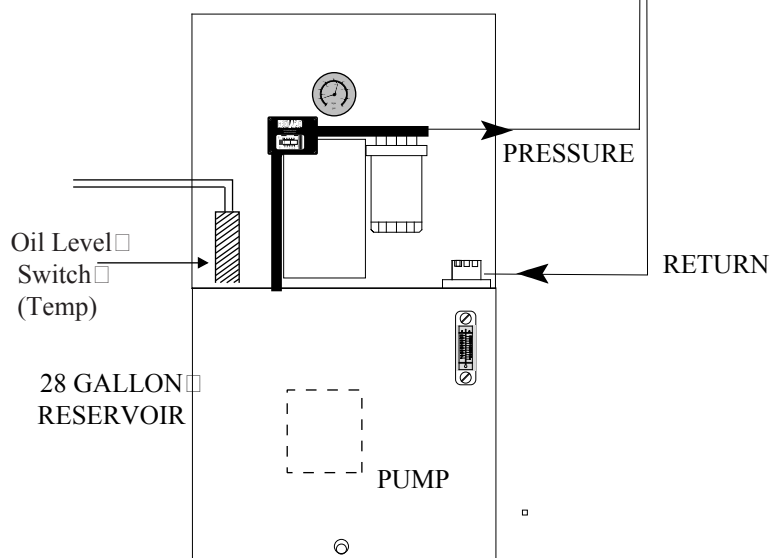
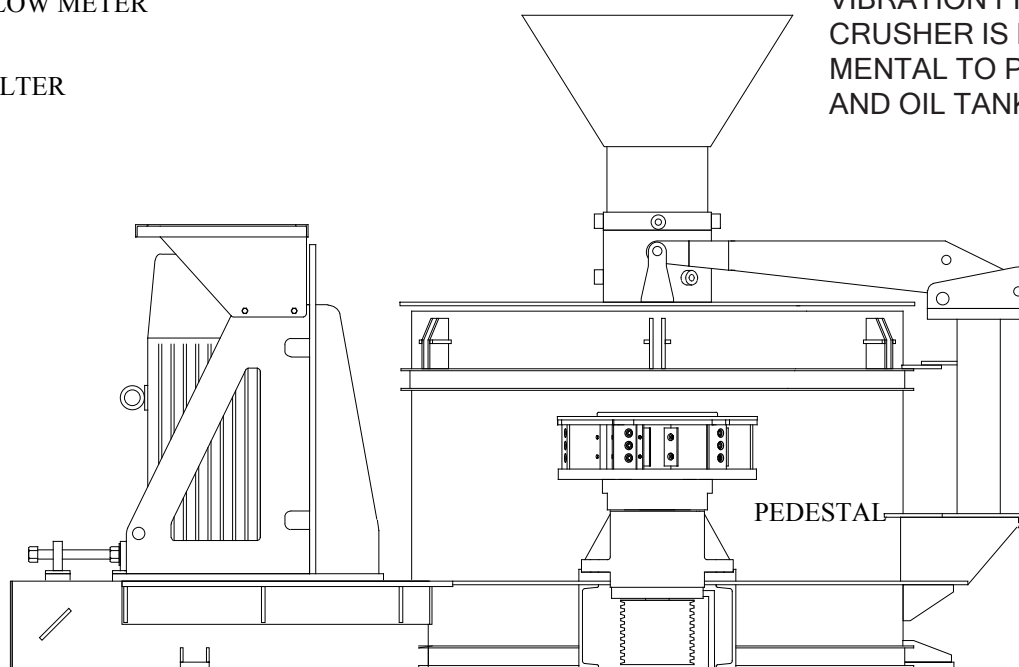
 OIL LEVEL GAUGE

 FLOW METER

 FILTER

INSTALL OIL TANK  
BELOW CRUSHER;  
MINIMUM: 2"  
MAXIMUM: 10'

MOUNT REMOTE (DO  
NOT MOUNT TO  
CRUSHER STAND AS  
VIBRATION FROM  
CRUSHER IS DETRI-  
MENTAL TO PUMP  
AND OIL TANK LIFE)



THE OIL TANK AND PUMP ASSEMBLY MUST BE INSTALLED   
BELOW THE PEDESTAL TO FACILITATE A GRAVITY RETURN.



# **RECOMMENDED LUBRICATION & SERVICE SCHEDULE**

\* Labyrinth Seal must be greased daily during operation so that new grease is seen in the area between the bottom of the hub and the top of the pedestal (20 pumps minimum).

\* Oil Filter for main lube system: Change every 100 Hours

\* Oil Change for main lube system: Change every 500 Hours (with routine sampling and analysis showing pedestal oil is retaining high quality, oil change intervals can extend to 1500 hours)

## **RECOMMENDED LUBRICANTS:**

Labyrinth Seal Grease: Chevron Delo EP-2 NLGI, or equivalent.

Main Lubrication System Oil: Chevron / Texaco Meropa 68, Exxon Spartan EP68, Mobil Gear 626, Dreyden EP Gear Lube 2

Tank Capacity: 28 gallons

## **RECOMMENDED FILTERS:**

LHA SPE-15-10, WIX 51551, NAPA 1551, FRAM P7037

ITEM	FREQUENCY	LUBE TYPE	DATE	INITIALS

START DATE: \_\_\_\_\_

END DATE: \_\_\_\_\_

