

8200 Gear Case Upgrade Dragline services

Overview

The OEM hoist and drag gear cases on the Marion 8200 are fabricated from plate steel reinforced by thin section stiffener plates fillet welded to the main case walls. With the natural flexing of the rotating frame, this gear case can also flex and cause pinion/gear misalignment that may compromise the life of the gearing and result in reduced reliability and availability.

The stiffener plates are subject to fatigue and cracking, which requires maintenance intervention at increasing intervals as the dragline ages.

The OEM gear case sealing may result in oil leaks around the pinion bearings and the joint where the lid is attached to the case. This creates housekeeping problems and requires additional maintenance.



P&H upgrade

8200 Gear case upgrade

Komatsu dragline services has developed a cost effective gear case solution. This case has 100 mm (4 inch) side walls and base plates to minimize flexing during operation. The case also incorporates extensive use of full penetration welds and weld grinding. This provides:

- Maintenance of good pinion/gear alignment
- Elimination of stiffener plate cracking
- Improved fatigue performance

With double seal retainers on the motor input shafts and O-ring sealing of the case lids, oil leaking is minimized. The retainers feature case drain back porting and a labyrinth internal seal with outer packing ring.

The bearing carrier is available in concentric or eccentric configurations depending on customer preference.

Available as an option is a proven oil filtration system. This includes 21 liter/minute (5.6 gpm) gear pump, 20 micron filter and 10 m mesh strainer. An oil lance is used to direct lubricant precisely onto the gear mesh. A pushbutton oil sample valve and a flow switch are also provided.



OEM case



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