H30 / H10

Guidance for MOTTA H30/H10 bearing, gear and industrial circulating-oil systems. Identify the actual circuit and its required lubricant before filling or changing products.

Product	Grades	Principal duty
H30	ISO VG 32 / 46 / 68 / 100	Versatile industrial circulating lubrication
H10	ISO VG 150 / 220 / 320 / 460	Higher-viscosity bearing and prescribed gear/circulation duties

1. Select by circuit and delivery method

Confirm bearing/gear requirements, load, speed, temperature and oil-delivery method. H30 and H10 have different viscosity ranges. A circulating oil is not automatically an EP gear oil or anti-wear hydraulic oil. Compressor and gas-process uses require their own compatibility checks and equipment procedures; do not generalise suitability to oxygen/reactive-gas service.

2. Isolate, clean and fill

Stop and isolate hazardous energy; verify pressure and temperature before opening the system. Clean the reservoir and fill points. Flush new or overhauled circuits as specified. Use dedicated dry transfer equipment and the required filtration; set the correct level, retain an initial-fill sample and record product, grade and batch.

3. Confirm supply before loading

Verify pump priming, supply/return paths, filters, coolers and guards by the machine procedure. Check splash level and oil-ring movement where fitted. Establish the required flow or circulation before applying load; do not run bearings dry or bypass protection to overcome poor oil delivery.

H30 / H10

4. Monitor the working system

Record level, pressure/flow, bearing and return temperatures, filter differential pressure, noise, vibration and leakage. Investigate foam, water, deposits or an unexplained level rise. Inspect coolers, seals, breathers and return arrangements. Remove separated water only by the approved safe procedure.

5. Maintain by condition and trends

Sample consistently and compare viscosity, water, acidity, cleanliness and oxidation condition with the initial reference and equipment/laboratory limits. Add tests according to the fault and duty. Correct contamination, cooling or supply faults before replacing oil. No single discard number or calendar covers every circulating system.

6. Changeover, storage and records

Before mixing or conversion, assess compatibility with the existing oil, seals and application. Drain, flush and refill by the machine procedure; check supply and filters after restart. Store sealed labelled containers dry. Record top-ups, analyses and maintenance; refer recurring abnormalities to MOTTA or the equipment service team.

Observations and actions

Observation	Action
Loss of supply or rising bearing temperature	Follow machine protection/shutdown requirements; check level, pump and delivery before restart.
Free water, foam or unexpected level rise	Find contamination or air entry and assess the oil/circuit before continued operation.
Deposits, noise or repeated filter blockage	Check lubrication, temperature and contamination trends; investigate the root cause.