G200 / G500

Practical guidance for G200 dual-purpose hydraulic/slideway oils and G500 dedicated way oils. Keep the circuit identity, viscosity and delivery method matched to the machine.

Product	Grades	Lubrication duty
G200	ISO VG 32 / 68	Specified combined hydraulic and slideway service
G500	ISO VG 32 / 68 / 150 / 220	Dedicated ways; other duties only as specified

1. Select for the actual lubrication circuit

Confirm the machine model, oil circuit and required viscosity. G200 serves combined hydraulic/way duties where specified; G500 serves slideways and only the additional duties designated by the machine builder. Confirm compatibility before changing products; matching viscosity alone is not sufficient.

2. Isolate before accessing the machine

Stop and isolate hazardous energy, prevent axis movement and secure raised loads before opening lines or touching way surfaces. Release and verify trapped hydraulic pressure by the machine procedure. Never locate a pressure leak with hands; suspected fluid injection requires emergency medical assessment.

3. Fill and establish delivery

Clean fill points and use dedicated, dry transfer equipment. Fill the correct reservoir to its prescribed level. Prime and bleed only as instructed; do not loosen pressurised fittings. Check metering units, lines, wipers and oil delivery to each way, then restore guards before the controlled start-up.

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4. Inspect motion, film and circuit condition

Watch low-speed movement, oil coverage, unusual noise, reservoir level and leakage. Where hydraulics are fitted, also monitor temperature, filter indications and the specified operating parameters. Investigate jerky feed, dry patches, scoring or rising tramp oil rather than increasing oil delivery without checking the cause.

5. Maintain according to the lubrication duty

For total-loss way lubrication, maintain delivery, metering and wiper condition; a sump discard limit does not assess the film on the ways. For circulating reservoirs, use consistent oil sampling and the machine's condition limits. Trend viscosity, water and cleanliness where applicable; repair contamination sources before refilling.

6. Store, record and return to service

Keep original containers closed, dry and labelled. Record the product, grade, batch, machine, top-ups and corrective work. Collect used oil and contaminated materials for proper disposal. Restart only after the cause of a lubrication fault has been corrected; provide these records to MOTTA or the machine service team if faults recur.

Operating observations and actions

Observation	Action
No oil at a lubrication point	Bring the machine to a safe state; inspect pump, line and metering unit before restart.
Stick-slip or scoring	Check correct oil/grade, supply, contamination and way condition.
Free water, foam or abnormal heat	Identify ingress, aeration or system faults; assess the circulating oil against machine requirements.