

Hydrau™

Premium Hydraulic Oil



JOHN DEERE



Features and benefits

Hydrau™ is a premium, all-season, anti-wear hydraulic oil specifically designed for use in the hydraulic and hydrostatic systems of construction and forestry equipment.

- Exceed the highest industry ISO 11158 category HV performance standard
- Compatible with older equipment
- Excellent cold-temperature flow characteristics
- Superior high-temperature viscosity
- Superior oxidation and thermal stability
- Excellent anti-foam and air-release properties
- Protect against rust and corrosion
- Extended change intervals

Hydrau offers

- ISO 68 compliance
- All-season capability in ambient temperatures of -20°C to 50°C (-4°F to 122°F)
- Factory-fill fluid
- Exceptional shear stability under severe operating conditions

Applications

Hydrau is formulated to meet or exceed the requirements for industrial and mobile hydraulic systems that call for:

- John Deere Performance Specification DTW 3488
- ISO 6743-4 (L-HV) = Hydrau
- DIN 51524-3 (part 3 HVLP)
- ISO 11158 (L-HV)
- ASTM D6158-HV
- Denison HF-0, HF-1, HF-2:
- Denison P-46 piston pump test
- T6C vane pump test
- Eaton Vickers I-286-S (industrial)
- Eaton Vickers M-2950-S (mobile)
- Bosch Rexroth
- MAG Cincinnati and Cincinnati Milacron P-68, P-69 and P-70
- US Steel 126, 127 and 136



Operating Range

Ambient Temperature

Hydrau

–20° C (–4° F) to 50° C (122° F)

Physical Properties

Test Method

Hydrau

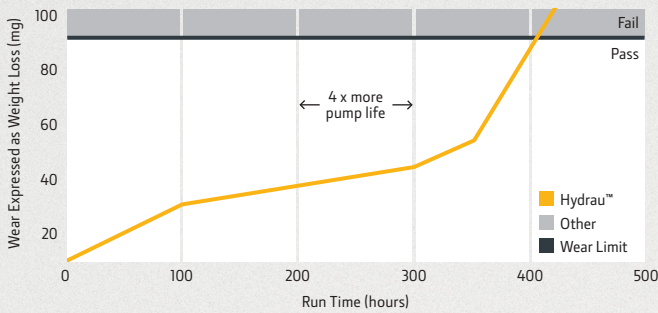
ISO Viscosity Grade		68
Viscosity @ 40° C	ASTM D445	67.9 cSt
Viscosity @ 100° C	ASTM D445	12.4 cSt
Viscosity Index	ASTM D2270	184
Brookfield Viscosity @ –25° C	ASTM D2983	9046 cP
Pour Point	ASTM D6749	–45° C (–49° F)
Flash Point	ASTM D92	215° C (419° F)
Copper Strip Corrosion	ASTM D130	Class 1A
Oxidation Stability	ASTM D943	> 5,000 hours
	ASTM D877	> 35 kV

To see our range of lubricants,
please visit our website.

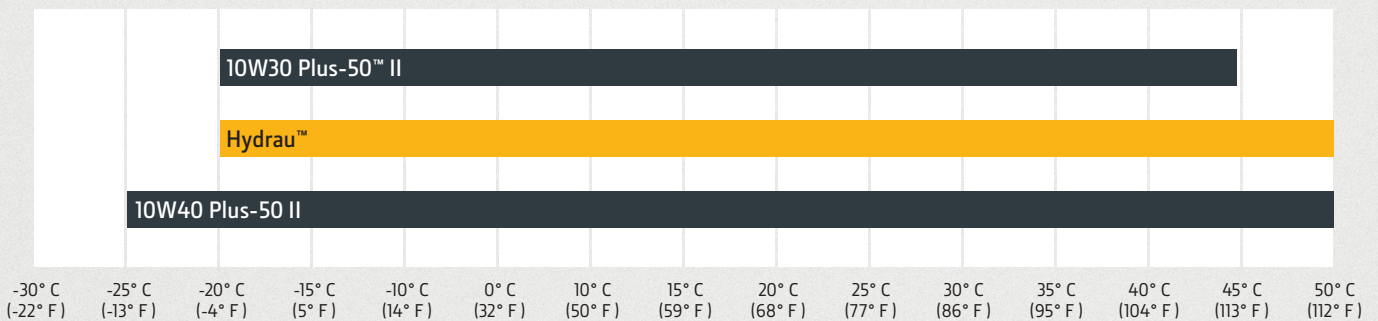


Anti-wear performance indicator

35VQ25 Vane Pump Test



Ambient temperature operating range



°F Fahrenheit °C Celsius

Parker-Denison T6H20 hybrid pump test

One of the hydraulic industry's harshest tests, used to evaluate:

- Lubricity at extreme temperatures
- Lubricity in the presence of water
- Corrosion protection
- Hydrolytic stability
- Thermal stability
- Shear stability

Hydrau products provide outstanding wear performance:

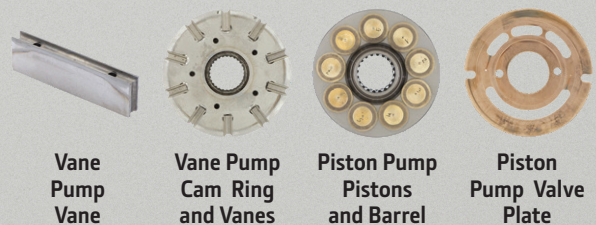
- Maximizes uptime by reducing maintenance
- Optimized for the most severe applications
- Provides up to four times the life-cycle protection compared to competitive products in extended testing

Dry phase 300 hours

- Vane pump 3,625 psi
- Piston pump 4,000 psi
- 1,700 rpm
- 110° C (230° F) oil temp

Wet phase 300 hours

- Vane pump 3,625 psi
- Piston pump 4,000 psi
- 1,700 rpm
- 80° C (176° F) oil temp
- 1% water added



Vane Pump Vane

Vane Pump Cam Ring and Vanes

Piston Pump Pistons and Barrel

Piston Pump Valve Plate

Hydrau vs. 10W-30

Wet filterability

John Deere Hydrau shows excellent filterability in simulated wet conditions. It is designed to filter properly in the presence of water.

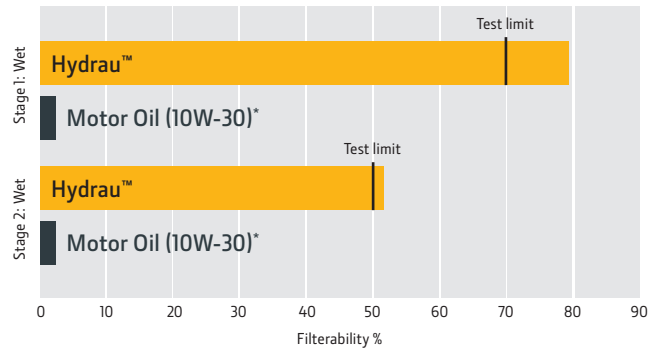
Water ingress is inevitable for any hydraulic system and must be managed:

- Filters should work well in the presence of water.
- Hydraulic fluid is designed to handle water and pass through the finest filters.
- Filter plugging can lead to many problems.
- The hydraulic system can go into bypass if system filters are blocked, stressing the system.
- Engine oil in the presence of water can completely plug hydraulic- system filters.

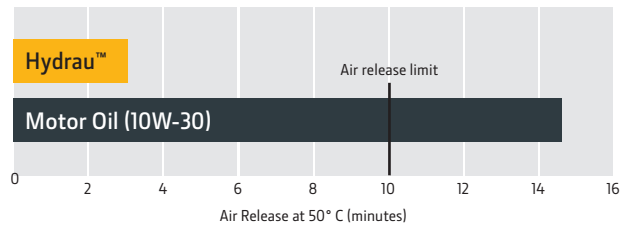
Air release

Oil with good air release can enhance equipment longevity. The presence of air can have a detrimental effect:

- Reduction in transmission of power
- Noise generation
- Cavitation and erosion
- Degradation of lubrication



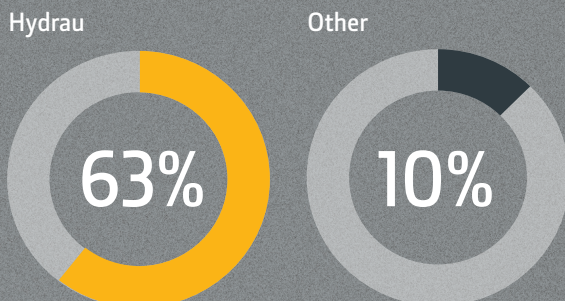
* Complete failure of engine oil to pass through filter



Fluid durability indicator

% Remaining Anti-Wear Additive
Remaining life after 4,000 hours of operation

The robust additive system used in John Deere Hydrau provides superior protection of your equipment for extended intervals.



HYDRAU AUSTRALIA

Size	Part number
20L	CP8239
205L	CP8240
1000L	CP8261

HYDRAU NEW ZEALAND

Size	Part number
20L	CP8239NZ
205L	CP8240NZ
1000L	CP8261NZ



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