



## **Product One Voice Q&A**

**Product: Synthetic Multi-Viscosity Hydraulic Oil**

**Product Area: Industrial**

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- **Question:**

Why did AMSOIL develop the HV Synthetic Multi-Viscosity hydraulic oils?

**Answer:**

Most mobile and stationary hydraulic applications do not require the extreme temperature performance properties provided by our AW hydraulic oils. AMSOIL recognized the need for a more cost effective high performance alternative to compete in the general hydraulics market.

- **Question:**

Does the lower price mean lower quality?

**Answer:**

No. AMSOIL HV oils are engineered to outperform any oil normally found in the general hydraulics market. They have very high viscosity indices that far exceed conventional oils. They provide all season capability and they are designed to significantly reduce varnish formation for longer trouble free operation.

- **Question:**

What viscosity grades are available in the HV series?

**Answer:**

HV is available in ISO VG 22, 32, 46, and 68. (HVG, HVH, HVI, HVJ).

- **Question:**

What will my customers gain by switching from conventional to the HV oils?

**Answer:**

There are three major benefits for the customer:

- **All season capability** – HV oils are multi-viscosity products that can eliminate the need to change to lighter viscosity grades in cooler weather. The cost of new oil, disposal, and the potential for introducing contamination during the change will be reduced.

- **Varnish Protection** – Varnish can stop or damage a hydraulic system by plugging valve ports and filters. HV oils are designed to prevent varnish better than any currently available hydraulic oil. Preventing varnish buildup will lead to less downtime and maintenance costs.
  - **Efficiency** – Because of their high viscosity indices, HV oils will resist viscosity changes due to heating and cooling better than conventional oils. This means they will stay in the pump manufacturer’s optimal viscosity range over a wider temperature range. The operator will experience less sluggish operation and save fuel when the engine doesn’t have to work as hard to overcome excessive internal pump leakage caused by too thin of an oil or excessive friction caused by too thick of an oil.
- **Question:**  
How do I know HV oils are right for my application and what applications can they be used in?

**Answer:**

HV oils are appropriate for thousands of types of mobile and commercial hydraulic equipment using piston, vane, or gear pumps that require anti-wear hydraulic oil and or the following specifications:

- Parker Hannifin HF-0
- Vickers M-2950-S, I-286-S
- DIN 51524 parts 2&3
- Cincinnati Milacron P-68, P-69, P-70