



## Mobil HYDRAUL™

Mobil Commercial Vehicle Lube , Canada

High Performance Multipurpose Tractor Fluid

### Product Description

Mobil HYDRAUL™ products are high performance multipurpose tractor lubricants developed for use in agriculture, forestry, mining and construction equipment where a common oil sump is used for the transmission, differential, final drive, wet brake, wet clutch and hydraulic components. The advanced technology in Mobil HYDRAUL products is designed to optimize the performance of agriculture, forestry, mining and construction equipment operating in a wide range of environments and conditions. Mobil HYDRAUL products combine select base oils and an advanced additive package to deliver the varied lubricant performance properties required in severe duty applications of agriculture, forestry, mining and construction equipment drive trains. Mobil HYDRAUL is particularly well suited for reducing wet brake chatter.

### Features and Benefits

Mobil HYDRAUL 50 and Mobil HYDRAUL Extra have been specifically developed to ensure good low temperature fluidity for winter operations as low as -35°C. Mobil HYDRAUL 56 oil provides all-season performance down to -25°C.

Mobil HYDRAUL contains anti-wear and extreme pressure additives to provide exceptional protection against wear and scoring to help extend equipment life. Corrosion inhibitors protect against rust and corrosion in wet or humid environments. Potent inhibitors resist oxidation and thermal breakdown to increase the service life of the oil. Anti-foam additives provide resistance to foaming for optimum performance of transmission and hydraulic systems. Mobil HYDRAUL fluids have carefully balanced friction characteristics to provide outstanding wet brake chatter control and clutch operation in a wide range of equipment including John Deere, New Holland, Case and Volvo. Mobil HYDRAUL fluids are compatible with commonly used elastomers, including Viton, for extended seal, gasket, brake and clutch component life.

Features	Advantages and Potential Benefits
Optimum frictional properties	Protects clutches and wet-brakes Outstanding wet brake chatter control
Compatible with latest clutch materials and elastomers, including Viton	Long seal, gasket, brake and clutch component life Helps reduce oil leakage
High viscosity index and shear stability	Consistent operating response over wide operating range
Excellent protection against rust and corrosion	Protects equipment in wet or humid environments Helps to prevent premature wear
Excellent low temperature properties	Responsive operation and effective lubrication in cold weather applications
Strong anti-wear and extreme pressure properties	Helps reduce wear, maintenance costs, and extend equipment life
Excellent thermal and oxidation stability	Helps Reduce deposits, extend seal life, and increase service life of equipment and lubricant
Multipurpose capability	Simplifies inventory and reduces misapplication problems
Excellent resistance to foaming	Excellent performance of transmission and hydraulic systems
Good filterability	Keeps systems clean and operating smoothly

### Applications

- Agriculture, forestry, mining and construction equipment where a single fluid is recommended for the powershift or hydrostatic transmission, differential, final drive, wet brake, wet clutch and hydraulic components.
  - Mobil HYDRAUL 56 is recommended for systems calling for a "heavier" viscosity fluid in summer operation or "all-season" use where temperatures are above -25°C.
  - Mobil HYDRAUL 50 is recommended for year-round service in systems calling for a "lighter" viscosity fluid, and as a winter grade in place of HYDRAUL 56 oil in systems operating down to -35°C.
  - HYDRAUL EXTRA is an all-season product suitable for the most severe applications over the operating temperature range of -35°C to 100°C.
  - The following specifications have been deemed obsolete and are superseded by a current original equipment manufacturer's specification, backward compatible to the previous specification: JICASE MS 1207, JICASE MS 1209, FORDNH FNHA-2-C-201.00, and FORD ESN-M2C134-D

### Specifications and Approvals

This product has the following approvals:	MOBIL HYDRAUL 50	MOBIL HYDRAUL 56
ZF TE-ML 05F		X
ZF TE-ML 17E		X
ZF TE-ML 21F		X

This product is recommended for use in applications requiring:	MOBIL HYDRAUL 50	MOBIL HYDRAUL 56
JOHN DEERE JDM J20C		X
AGCO Powerfluid 821 XL		X
API GL-4		X
CNH MAT 3505		X
CNH MAT 3525		X
Caterpillar TO-2	X	X
Denison UTTO/THF		X
Eaton 35VQ25	X	
FORD ESN-M2C134-D		X
FORDNH FNHA-2-C-201.00		X
JICASE MS 1207		X
JICASE MS 1209		X
JOHN DEERE J20D	X	
MASSEY FERGUSON M-1135		X
MASSEY FERGUSON M-1141		X
Allison C-4		X

This product meets or exceeds the requirements of:	MOBIL HYDRAUL 50	MOBIL HYDRAUL 56
ASTM D6973 (Eaton 35VQ) vane pump test		X
KUBOTA UDT		X

### Properties and Specifications

Property	MOBIL HYDRAUL 50	MOBIL HYDRAUL 56	MOBIL HYDRAUL EXTRA
ASTM Color, ASTM D1500	L1.5	L2.0	L3.0
Brookfield Viscosity @ -35 C, mPa.s, ASTM D2983	6300	35800	6000
Brookfield Viscosity @ -40 C, mPa.s, ASTM D2983	19000	140000	16000
Density @ 15 C, kg/l, ASTM D4052			0.883
Density @ 15.6 C, kg/l, ASTM D4052	0.875	0.884	
Flash Point, Cleveland Open Cup, °C, ASTM D92	196	192	170
Kinematic Viscosity @ 100 C, mm <sup>2</sup> /s, ASTM D445	7.25	9.3	9.6
Kinematic Viscosity @ 40 C, mm <sup>2</sup> /s, ASTM D445	34	55	43
Pour Point, °C, ASTM D97	-45	-42	-48

### Health and Safety

Health and Safety recommendations for this product can be found on the Material Safety Data Sheet (MSDS) @ <http://www.msds.exxonmobil.com/psims/psims.aspx>

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#### Imperial Oil

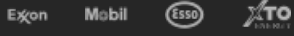
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Typical Properties are typical of those obtained with normal production tolerance and do not constitute a specification. Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice. All products may not be available locally. For more information, contact your local ExxonMobil contact or visit [www.exxonmobil.com](http://www.exxonmobil.com)

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