

## Newsletter 2018-0203 PENNASOL

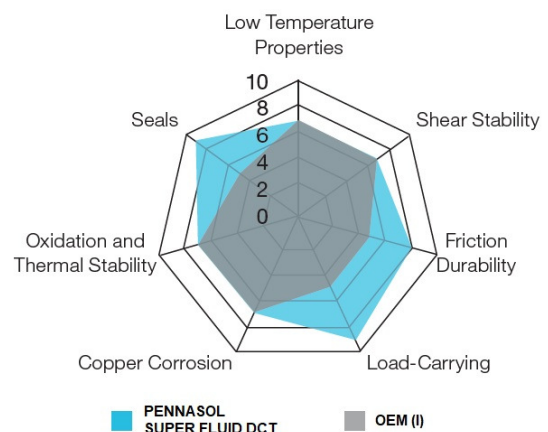
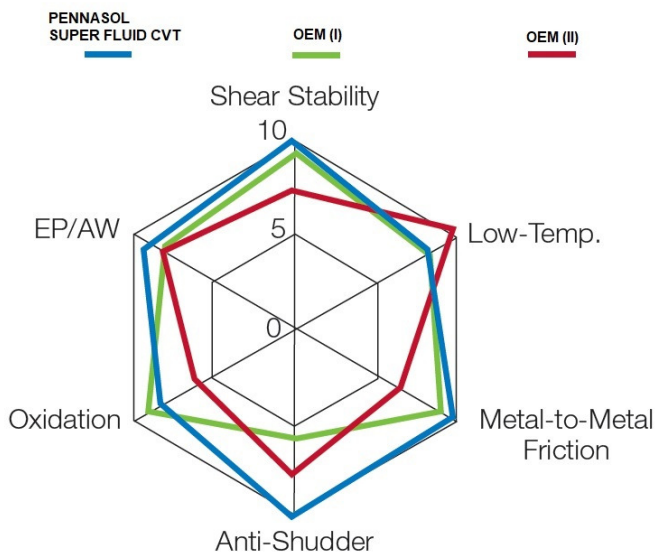
### Lubricants - Changes and News 2018

Dear Business Partners,

Today, we would like to draw your attention to some news and changes valid from 1<sup>st</sup> of October 2018.

#### ***PENNASOL SUPER FLUID CVT & DCT***

Our segment "Automatic Transmission Fluids" covers two additional products. Detailed information about these products is available at the product specification sheet.





With our two new product series PENNASOL POWER TRUCK ULTRA and POWER TRUCK ULTRA FE, we are expanding our product portfolio in the segment of "Heavy Duty Diesel Engine Oils":

**PENNASOL POWER TRUCK ULTRA series**

The PENNASOL POWER TRUCK ULTRA series is characterized by very good cold-start properties and excellent aging / oxidation stability.

<b>SAE 5W-30</b>	<b>SAE 10W-30</b>	<b>SAE 10W-40</b>
ACEA E6	ACEA E6	ACEA E6
ACEA E7	ACEA E7	ACEA E7
ACEA E9	ACEA E9	ACEA E9
API CK-4	API CK-4	API CK-4
API SN	API SN	API SN
Detroit Diesel DDC 93K222	Detroit Diesel DDC 93K218, 93K222	Detroit Diesel DDC 93K218, 93K222
Caterpillar ECF-3	Caterpillar ECF-3	Caterpillar ECF-3
Cummins CES 20086	Cummins CES 20086	Cummins CES 20086
Deutz DQC IV-10 LA	Deutz DQC IV-10 LA	Deutz DQC IV-10 LA
JASO DH-2	JASO DH-2	JASO DH-2
MAN M 3777 MAN M 3677 (field test running)	MAN M 3477, MAN M 3677 (field test running)	MAN M 3477
Mack EOS 4.5	Mack EOS 4.5	Mack EOS 4.5
MB 228.51	MB 228.51	MB 228.51
MTU Type 3.1	MTU Type 3.1	MTU Type 3.1
Renault Trucks RLD-4	Renault Trucks RLD-4	Renault Trucks RLD-4
Scania LA (field test running)	Volvo VDS-4.5	Volvo VDS-4.5
Volvo VDS-4.5		

**PENNASOL POWER TRUCK ULTRA FE series**

In the development of the PENNASOL POWER TRUCK ULTRA FE series special emphasis was placed on fuel economy. With its unique "Friction Modifier" technology and associated fuel savings, this product line helps to reduce total cost of ownership.

<b>SAE 5W-30</b>	<b>SAE 10W-30</b>
API FA-4	API FA-4
API SN	API SN
Cummins CES 20087	Cummins CES 20087
Detroit Diesel DDC 93K223	Detroit Diesel DDC 93K223
JASO DH-2 (in progress)	MB 228.61
JASO DH-2F (in progress)	
MB 228.61	



### **PENNASOL SUPER PACE PLUS SAE 5W-40**

As of now, a "Full SAPS" product with the following application recommendations is available in the segment "Passenger Car Motor Oils":

<b>SAE 5W-40</b>
ACEA A3/B4
API SN
API CF
MB 229.3 / 229.5
VW 502 00 / 505 00
Renault RN 0710 / RN 0700
GM-LL-A/B-025 (level)
JASO MA2 (level)
Porsche A40 (level)
BMW LL-01 (level)

### **PENNASOL SUPERIOR SN SAE 10W-40**

Our product **PENNASOL SUPERIOR SN SAE 10W-40** is only available in selected containers until the end of October 2018 (First come, first served).

Depending on the field of application, we can offer you our **PENNASOL SUPER PACE SAE 5W 40** or **PENNASOL SUPER LIGHT SAE 10W-40** as alternatives.

For further questions please contact your local service representative.

Changes in specification may lead to different versions of labels and product information.

For further information please contact your field manager and / or your responsible office representative.

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**With kind regards**

**Your PENNASOL-Team<sup>2</sup>**

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<sup>2</sup> This data sheet and the information it contains is believed to be accurate as of the date of printing. However, no warranty or representation, express or implied, is made as to its accuracy or completeness. Data provided is based on standard tests under laboratory conditions and is given as a guide only. Users are advised to ensure that they refer to the latest version of this data sheet. It is the responsibility of the user to evaluate and use products safely, to assess suitability for the intended application and to comply with all applicable laws and regulations. Material Safety Data Sheets are available for all our products and should be consulted for appropriate information regarding storage, safe handling, and disposal of the product. No responsibility is taken by either AVISTA OIL Group or its subsidiaries for any damage or injury resulting from abnormal use of material, from any failure to adhere to recommendations, or from hazards inherent in the nature of the material. All products, services and information supplied are provided under our standard conditions of sale.