

SRS Violin 410, 430, and 450



Power Transmission Oil

October 2018

Characteristics

SRS Violin 410, 430 and 450 are special power transmission oils for agricultural equipments and construction engines.

SRS Violin 410, 430 and 450 fulfil the increased requirements of Caterpillar TO-4 specification and are suitable for use in transmissions, final drives, hydraulic systems, wet brakes and clutches requiring Caterpillar TO-4.

Application

SRS Violin 410, 430 and 450 guarantee highest wear protection in different transmissions as lateral drives and differentials, optimise the friction coefficient in power shift gear boxes, wet brakes and clutches and maximize the lifetime of engines and equipment.

Performance / Specifications

- SAE Grade 10W, 30 and 50
- API GL-4
- API CF

Approvals / Recommendations

- Caterpillar TO-4
- Caterpillar TO-2
- ZF Approval Number ZF001931
SRS Violin 410: ZF TE-ML 03C
- ZF Approval Number ZF001932
SRS Violin 430: ZF TE-ML 03C, 07
- Allison C-4
- Komatsu KES 07.868.1
- Sperry Vickers / Eaton M2950S
- Sperry Vickers / Eaton I-280-S

SRS Violin 410, 430 and 450 are products of the H&R ChemPharm GmbH.

Typical Data	Test Method	SRS Violin		
		410	430	450
SAE Grade	SAE J 300	10W	30	50
Density at 15°C	DIN 51 757	0.877	0.892	0.897
Dyn. Viscosity -35°C	DIN 51 398	79,400	-	-
Dyn. Viscosity -26°C	DIN 51 398	-	126,000	-
Kin. Viscosity at 40°C	DIN EN ISO 3104	36.8	97.7	220
Kin. Viscosity at 100°C	DIN EN ISO 3104	6.26	10.8	18.4
Viscosity Index (VI)	DIN ISO 2909	119	94	92
Flash Point COC	DIN ISO 2592	228	247	282
Pour Point	DIN ISO 3016	-33	-30	-24

The above values may vary within the commercial limits.

Made in Germany