

**Description**

FEDERATED 0W16 FS SP 6/1Q

<b>Inspection Information</b>	<b>Test Method</b>	<b>Typical Value</b>
Gravity, °API	ASTM D287	36.05
Specific Gravity at 60°F (15.6°C)	ASTM D4052	0.8445
Flash Point, °C	ASTM D92	220
Flash Point, °F	ASTM D92	428
Viscosity at 40°C, cSt	ASTM D445	38.74
Viscosity at 100°C, cSt	ASTM D445	7.44
Viscosity Index	ASTM D2270	162
Pour Point, °C (°F)	ASTM D5950	-45°C (-49°F)
Cold Cranking Simulator at (°C), cP	ASTM D5293	5000 (-30)
High Temperature / High Shear Vis at 150°C, cP	ASTM D5481	2.4
Noack Volatility, % loss	ASTM D5800	13
Color	ASTM D1500	3
Zinc, wt. %	ASTM D5185	0.085
Phosphorus, wt. %	ASTM D5185	0.076
Calcium, wt. %	ASTM D5185	0.135
Sulfur, wt. %	ASTM D4951	0.3
Magnesium, wt. %	ASTM D5185	0.059
Boron, wt. %	ASTM D5185	0.023
Molybdenum, wt. %	ASTM D5185	0.0079
Sulfated Ash, wt. %	ASTM D874	0.92
Nitrogen, wt. %	ASTM D4629	0.102
Pumping Viscosity at (°C), cP	ASTM D4684	15,100 (-35)
Shear Stability, Final Viscosity in cSt	ASTM D6278	6.6
Foam Seq. I (Tendency/Stability), mL	ASTM D892 (Opt. A)	0/0
Foam Seq. II (Tendency/Stability), mL	ASTM D892 (Opt. A)	0/0
Foam Seq. III (Tendency/Stability), mL	ASTM D892 (Opt. A)	0/0
High Temperature Foaming, static foam	ASTM D6082 (Opt A)	20/0
Copper Strip Corrosion (3 hrs at 100°C)	ASTM D130	1A
TBN, mgKOH/g	ASTM D2896	7
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Viscosity at 100°C, cSt	ASTM D445	7.44
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Cold Cranking Simulator at (°C), cP	ASTM D5293	5000 (-30)
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Foam Seq. II (Tendency/Stability), mL	ASTM D892 (Opt. A)	0/0
Foam Seq. III (Tendency/Stability), mL	ASTM D892 (Opt. A)	0/0
High Temperature Foaming, static foam	ASTM D6082 (Opt A)	20/0
Copper Strip Corrosion (3 hrs at 100°C)	ASTM D130	1A
TBN, mgKOH/g	ASTM D2896	7

## Claims Information

API SN	Recommended For
API SN PLUS	Recommended For
API SP	Approved
ILSAC GF-6B	Approved