

# Summary of GF-4 vs. Current ILSAC GF-5 Position for Key Test Parameters

## - Tighter Limits & New Tests

Performance Parameter	Test Method	ILSAC Standard		
		GF-4	ILSAC 9-08	ILSAC 2-07
Seq. IIIG Piston Deposits, merits, min.	Seq. IIIG	3.5	4.5	5.0
Seq. VG Engine Sludge, merits, min.	Seq. VG	7.8	8.0	8.3
Seq. VG Rocker Sludge, merits, min.	Seq. VG	8.0	8.3	8.5
Seq. VG Oil Screen Clogging % max.	Seq. VG	20.0	15.0	5.0
Phosphorous, mass%, min.	ASTM D4951	0.06	0.06	0.06
Phosphorous, mass%, max.	ASTM D4951	0.08	0.08	0.07
Sulfur Content, mass%, max.	ASTM D4951 or ASTM D2622	0.5 (0W & 5W) 0.7 (10W)	0.5 (0W & 5W) 0.6 (10W)	0.5
Fresh Oil Foaming/Hi Temp Foaming Charact.	D892/6082 OptA	10 min settling	1 min settling pd	1 min settling pd
TEOST MHT, deposit weight, mg	ASTM D7097	35	30	30
Seq. VID Fuel Economy, %, min.	Seq. VID	---	At least 0.5% above VIB limits	At least 0.5% above VIB limits
Used Engine Oil Aeration Volume, %, max.	ASTM D6894	---	8	6
IIIGB Phos. Retention	Seq. IIIGB	---	85.0%	
TEOST 33C, deposit weight, mg	ASTM D6335	---	25	25
ROBO - Used Oil Pumpability	ROBO	---	MRV pass in orig. CCS grade or +1 grade of used oil	MRV pass in orig. CCS grade or +1 grade of used oil
Emulsion Retention test	Chrysler method	---	No separation 0°C, 24 hours 25°C, 24 hours	No separation 0°C, 24 hours 25°C, 24 hours
Seal Compatability	SAE J2643	---	4 materials	4 materials
Rust Protection (100hrs sand blasted panel)	ASTM D1748	---	Removed	No Rust
Seq. IIIGA Aged Oil Low Temp Vis.	Seq. IIIGA	MRV+1g rade	Removed (ROBO only)	Or ROBO

	Removed
	New
	Unchanged
	Tightened