

**“TATNEFT PROGRESS” SAE 15W-40 API SH, SG/CD  
TU 0253-001-54409843-2003 as amended 1-4**

<b>MAIN QUALITY SPECIFICATIONS</b>						
<b>№</b>	<b>Indexes of quality</b>	<b>Unit</b>	<b>Value for grade</b>	<b>Normative Requirements</b>	<b>Actual values</b>	<b>Test Method</b>
1	Kinematic Viscosity at 100°C	mm <sup>2</sup> /s	13,5 -16,3	-	14,2	GOST 33
2	Viscosity Index		min 120	-	145	GOST 25371
3	Dynamic Viscosity, at minus 20°C	cP	max 7000	-	guaranteed	ASTM D 5293
4	Dynamic Viscosity, at minus 25°C	cP	max 60000	-	guaranteed	ASTM D 4684
5	Evaporation Loss (by Noack)	wt %	Not rated. To be determined.	-	12	ASTM D 5800
6	Total Alkalinity	mg KOH/gr	min 7,0	-	8,9	GOST 11362 and p.5.2 of TU
7	Sulfated ash	wt %	max 1,5	-	1,1	GOST 12417
8	Mechanical impurities content	wt %	max 0,015	max 0,03	absent	GOST 6370 and p.5.3 of TU
9	Water Content		traces	-	traces	GOST 2477
10	Pour Point	°C	not above minus 30	-	minus 37	GOST 20287 (method B)
11	Flash Point, COC	°C	min 210	min 135	228	GOST 4333
12	Copper Strip Test at 100 °C made within 3 hrs on copper plates M1 or M1k, (GOST 859)	points	max 1B	-	1A	GOST 2917
13	Foaming propensity: at 24 °C at 94 °C at 24 °C after testing at 94 °C	sm <sup>3</sup>	max 10 max 50 max 10	-	guaranteed	GOST 23652, p.5.5 or ASTM D 892
14	Active elements content calcium zinc	wt %	Not rated. To be determined.	-	0,28 0,10	GOST 13538
15	Density at 20°C	kg/m <sup>3</sup>	Not rated. To be determined.	-	876	GOST 3900 or ASTM D 4052
16	Self-ignition point	°C	-	min 165	382	GOST 12.1.044, p.p.2.1, 4.8