Head (deputy head) of
Federal accreditation service

Stamp. _____ _____
signature name

Supplement to certificate of accreditation
№ RA.RU.21НП39
of 17 » July 2015
on 6 sheets, sheet 1

Scope of accreditation of test center

Test center of oil, petroleum products and gases of Joint Stock «Volga Research Institute of Hydrocarbon Feed»
Name of test laboratory (center) of legal body

Republic of Tatarstan, Kazan, 35A, N.Ershov str., buildings A, Б
Address of the place of activity of test laboratory (center)

No.	Documents, establishing rules and methods of research (tests), measurements	Name of object	Code OKPD 2	Code TN VED EAES	Determined characteristic (parameter)	Range of determination
1	**2**	**3**	**4**	**5**	**6**	**7**
1	GOST R 51947	Motor gasolines Oil Diesel fuel Marine fuel Vacuum residue Domestic heating fuel	19.20.21.100 06.10.10 19.20.21.300 19.20.21.400 19.20.28.100 19.20.28.130	2710 12 2709 00 2710 12 2710 12 2710 20 2710 19	Mass fraction of sulfur, mg/kg	7 - 5000
2	GOST R 52714	Motor gasolines	19.20.21.100	2710 12	Mass fraction of benzene, %	0.05 – 45.0
3	GOST R 52714	Motor gasolines	19.20.21.100	2710 12	Volume fraction of hydrocarbons,%: - aromatic - olefin	0.05 – 45.0

1	2	3	4	5	6	7
4	GOST 8226 GOST 511	Motor gasolines	19.20.21.100	2710 12	Octane number: Research method Motor method	 40-100 40-100
5	GOST 2177	Motor gasolines Oil Diesel fuel Domestic heating fuel Marine fuel	19.20.21.100 06.10.10 19.20.21.300 19.20.28.130 19.20.21.400	2710 12 2709 00 2710 12 2710 19 2710 12	Fractional composition: - by volume, % - by temperature, ^{0}C	 1 – 99.9 5-400
6	GOST R 54275	Motor gasolines	19.20.21.100	2710 12	Volume fraction of oxygenates, %: - methanol, -ethanol, -iso-propyl alcohol, -tert.-butyl alcohol, -iso-butyl alcohol, -ethers (C_5 and higher), - other oxygenates	0.01 – 30.0
7	GOST 6321	Motor gasolines	19.20.21.100	2710 12	Copper plate test	passes /does not pass
8	GOST 6307	Motor gasolines Diesel fuel Marine fuel Vacuum residue Domestic heating fuel	19.20.21.100 19.20.21.300 19.20.21.400 19.20.28.100 19.20.28.130	2710 12 2710 12 2710 12 2710 20 2710 19	Water-soluble acids and alkalies	absence/ presence
9	GOST 3900	Motor gasolines Diesel fuel Marine fuel Domestic heating fuel Oil Vacuum residue	19.20.21.100 19.20.21.300 19.20.21.400 19.20.28.130 06.10.10 19.20.28.100	2710 12 2710 12 2710 12 2710 19 2709 00 2710 20	Density, kg/m^3	670-760 750-880 830-940 830-910 820-940 880-940

1	2	3	4	5	6	7
10	GOST 2477	Diesel fuel Marine fuel Vacuum residue Domestic heating fuel Oil	19.20.21.400 19.20.28.1001 9.20.21.300 19.20.28.130 06.10.10	2710 12 2710 12 2710 20 2710 19 2709 00	Mass fraction of water, %	0.03-20.0
11	GOST 21534	Oil	06.10.10	2709 00	Concentration of chlorine salts, mg NaCl/1dm^3	3 - 10000
12	GOST 6370	Diesel fuel Marine fuel Vacuum residue Domestic heating fuel Oil	19.20.21.300 19.20.21.400 19.20.28.100 19.20.28.130 06.10.10	2710 12 2710 12 2710 20 2710 19 2709 00	Mass fraction of mechanical impurities, %	0.005- 5.0
13	GOST 11851	Oil	06.10.10	2709 00	Mass fraction of paraffin, %	1.0 – 10.0
14	GOST RP 50802	Oil	06.10.10	2709 00	Mass fraction of hydrogen sulfide, MM^{-1}	2-200
					Mass fraction of methyl- and ethyl mercaptans, MM^{-1}	2-200
15	GOST 6356	Diesel fuel Vacuum residue Marine fuel Domestic heating fuel	19.20.21.300 19.20.28.100 19.20.21.400 19.20.28.130	2710 12 2710 20 2710 12 2710 19	Closed cup flash point, ^{0}C	40- 170
16	GOST 3122	Diesel fuel	19.20.21.300	2710 12	Cetane number	40.0-60.0
17	GOST 33	Diesel fuel Marine fuel Domestic heating fuel Vacuum residue Motor oils for carburetor engines Motor oils for diesel engines	19.20.21.3001 9.20.21.400 19.20.28.130 19.20.28.100 19.20.29.110 19.20.29.110	2710 12 2710 12 2710 2710 20 2710 19 2710 19	Kinematic viscosity, mm^2/sec.	1.0-2000

1	2	3	4	5	6	7
18	GOST 5066	Diesel fuel	19.20.21.300	2710 12	Cloud point, ^{0}C	From minus 50 to plus 5
19	GOST 1461	Diesel fuel Vacuum residue Motor oils for carburetor engines Motor oils for diesel engines Domestic heating fuel	19.20.21.300 19.20.28.100 19.20.29.110 19.20.29.110 19.20.28.130	2710 12 2710 20 2710 19 2710 19 2710 19	Ash content, %	0.005 – 2.0
20	GOST 4333	Motor oils for carburetor engines Motor oils for diesel engines Vacuum residue	19.20.29.110 19.20.29.110 19.20.28.100	2710 19 2710 19 2710 20	Open cup flash point, ^{0}C	100-300
21	GOST 19932	Diesel fuel Vacuum residue Marine fuel Domestic heating fuel Motor oils for carburetor engines Motor oils for diesel engines	19.20.21.300 19.20.28.100 19.20.21.400 19.20.28.130 19.20.29.110 19.20.29.110	2710 12 2710 20 2710 12 2710 19 2710 19 2710 19	Coking efficiency, %	0.001 – 20.0
22	GOST 20287 Method B	Marine fuel Vacuum residue	19.20.21.400 19.20.28.100	2710 12 2710 20	Flow temperature, ^{0}C	From minus 70 to plus 20
					Pour temperature, ^{0}C	From minus 70 to plus 20

1	2	3	4	5	6	7
23	GOST 25371	Motor oils for carburetor engines	19.20.29.110	2710 19	Viscosity index	0-200
24	GOST 12417	Motor oils for diesel engines	19.20.29.110	2710 19	Sulfated ash, %	0.005 – 2.0
25	GOST 13379	Oil	06.10.10	2709 00	Mass fraction C_1-C_6 hydrocarbons, hydrogen sulfide, %	0.01 – 3.0
26	GOST 10679	Liquefied hydrocarbon gases	23.20.22.120	2711190000	Mass fraction of components, %	0.1 – 99.9
27	GOST ISO 8973	Liquefied hydrocarbon gases	23.20.22.120	2711190000	Saturated vapor gauge pressure, kPa	-
28	FR.1.31.2015.19926	Disulfide oil	-	-	Mass fraction of dialkyl disulfides, %	0.1 – 9.0
29	GOST 24676	Pentanes	20.14.11.113	2901 10 0002	Mass fraction of components, %	0.01 – 97.5
30	GOST 31371.7	Natural gas	06.20.10 06.20.10.120	2711 11 2711 21	Mole fraction of components,%	0.0005 – 99.97
31	GOST 31369 (ISO 6976:1995)	Natural gas	06.20.10 06.20.10.120	2711 11 2711 21	Heat value, density, relative density, Wobbe number	-
32	GOST R 53367	Flammable natural gas	06.20.10.110	2711 11 2711 21	Mass concentration of sulfur-containing compounds, mg/m^3	1.0 – 50.0
33	FR.1.31.2014.18560	Associated petroleum gas	06.20.10.120	2711 11 2711 21	Mole fraction of components,%	0.001 – 95.0
34	FR.1.31.2015.19932	Associated petroleum gas	06.20.10.120	2711 11 2711 21	Mass concentration of sulfur-containing compounds, mg/m^3	3.0 – 1000.0
35	GOST 14920	Dry gas	-	-	Mass fraction of components, %	0.1 – 100.0
36	TU 2175-037-00151638-2012, item 6.3. with revisions1, 2, 3,4,5,6	Catalyst for desulfurization of IVKAZ (p) grade Catalyst for desulfurization of IVKAZ (s) grade	20.59.56.150	3815 90 9000	Constant of sodium mercaptide oxidation reaction rate, K • 10^4, c^{-1}	1-100

1	2	3	4	5	6	7
37	TU 2175-037-0151638-2012, item 6.4 with revisions 1, 2, 3,4,5,6	Catalyst for desulfurization of IVKAZ (p) grade Catalyst for desulfurization of IVKAZ (s) grade	20.59.56.150	3815 90 9000	Mass fraction of cobalt phthalocyanine sulfoacids, %	10-100
38	TU 2175-037-0151638-2012, item 6.6 with revisions 1,2,3,4,5,6	Catalyst for desulfurization of IVKAZ (p) grade Catalyst for desulfurization of IVKAZ (s) grade	20.59.56.150	3815 90 9000	Mass fraction of non-soluble impurities, %,	0.1-6.0
39	GOST 21119.1 method 2	Catalyst for desulfurization of IVKAZ (p) grade	20.59.56.150	3815 90 9000	Mass fraction of water, %	0.1– 5.0
40	PND F 13.1:2:3.23-98	Workplace air Industrial emissions	-	-	Mass concentration, mg/m^3: - saturated C_1-C_5 hydrocarbons - non-saturated hydrocarbons	 1-1500 1-1500
41	PND F 13.1:2:3.25-98	Workplace air Industrial emissions	-	-	Mass concentration, mg/m^3: - saturated C_1-C_{10} hydrocarbons - non-saturated C_2-C_5 hydrocarbons - aromatic hydrocarbons	 0.2-1000 1.0-1000 0.2-1000
42	PND F 13.1:2:3.25-99	Workplace air Industrial emissions	-	-	Mass concentration of carbon oxide and methane, mg/m^3	2-600

General director of JS «VNIIUS» _____ A.M. Mazgarov

Post of authorized person | Signature of authorized person | Name of authorized person

Stamp

Head of TC of JS «VNIIUS» _____ R.Sh. Nigmatullina

Post of authorized person | Signature of authorized person | Name of authorized person

Head of expert group E.V.Akhtemirova

Technical experts I.V.Berdnikova

A.N.Partseva