



ORDER

№ A 314

Sofia, 13.08.2024

Pursuant to Art. 10, para. 1, item 2a of the Law on National Accreditation of Conformity Assessment Bodies in connection with item 5.3.1 of BAS QR 2 Accreditation Procedure and EA BAS order reg. № A 313/13.08.2024, I hereby

AMEND

EA BAS order № A 73/15.02.2024

**of PRISTA OIL HOLDING EAD
PETROLEUM PRODUCTS TESTING LABORATORY**

Management address: 1407 Sofia, Lozenets, 20 Zlaten Rog Str.

Laboratory address: 7012 Ruse, 46 Treti Mart Blvd.

To perform testing of:

Type of the scope: <i>flexible*</i>			
№	Tested products	Type of test / characteristic	Testing methods (standard / validated method)
1	2	3	4
1.	Base Oils	1.1. Kinematic Viscosity	БДС EN ISO 3104, Procedure A ASTM D445 ASTM D7042
		1.2. Viscosity Index	БДС ISO 2909 ASTM D2270
		1.3. Density	БДС EN ISO 3675 ASTM D1298 ASTM D4052
		1.4. Flash Point Open Cup	БДС EN ISO 2592 ASTM D92
		1.5. Flash Point Closed Cup	БДС EN ISO 2719 ASTM D93
		1.6. Pour Point	БДС EN ISO 3016 ASTM D97
		1.7. Acid Number	БДС 1752, Method A БДС ISO 6618
		1.8. Water Separability (Demulsifying Properties)	БДС ISO 6614 ASTM D1401
		1.9. Foaming Characteristics (Tendency and Stability)	БДС ISO 6247 ASTM D892
		1.10. Air Release Properties	БДС ISO 9120 ASTM D3427
		1.11. Evaporation by Noack	ASTM D5800, Procedure A

Type of the scope: <i>flexible</i> *			
Nº	Tested products	Type of test / characteristic	Testing methods (standard / validated method)
1	2	3	4
		1.12. CCS-Viscosity at Negative Temperatures	ASTM D5293
		1.13. Sulfur Content	БДC EN ISO 8754
			ASTM D4294
		1.14. Color	БДC ISO 2049 ASTM D1500
		1.15. Water Content	БДC ISO 3733
		1.16. Ash	БДC EN ISO 6245 ASTM D482
		1.17. Carbon Residue	БДC ISO 6615
		1.18. Water Soluble Acids and Bases	БДC 5252
		1.19. Mechanical Impurities	БДC 17411
		1.20. Refractive Index	БДC ISO 5661
2.	Lubricating oils AN	2.1. Kinematic Viscosity	БДC EN ISO 3104, Procedure A ASTM D445
		2.2. Viscosity Index	БДC ISO 2909 ASTM D2270
		2.3. Density	БДC EN ISO 3675 ASTM D1298
		2.4. Flash Point Open Cup	БДC EN ISO 2592 ASTM D92
		2.5. Pour Point	БДC EN ISO 3016 ASTM D97
		2.6. Acid Number	БДC 1752, Method A БДC ISO 6618
		2.7. Color	БДC ISO 2049 ASTM D1500
		2.8. Water Content	БДC ISO 3733
		2.9. Mechanical Impurities	БДC 17411
		2.10. Water Soluble Acids and Bases	БДC 5252
		2.11. Ash	БДC EN ISO 6245 ASTM D482
		2.12. Carbon Residue	БДC ISO 6615
		2.13. Foaming Characteristics (Tendency and Stability)	БДC ISO 6247 ASTM D892
3.	Gear oils	3.1. Kinematic Viscosity	БДC EN ISO 3104, Procedure A ASTM D445 ASTM D7042
		3.2. Viscosity Index	БДC ISO 2909 ASTM D2270
		3.3. Density	БДC EN ISO 3675 ASTM D1298 ASTM D4052
		3.4. Flash Point Open Cup	БДC EN ISO 2592 ASTM D92
		3.5. Flash Point Closed Cup	БДC EN ISO 2719 ASTM D93
		3.6. Pour Point	БДC EN ISO 3016 ASTM D97
		3.7. Foaming Characteristics (Tendency and Stability)	БДC ISO 6247 ASTM D892
		3.8. Water Separability (Demulsifying Properties)	БДC ISO 6614 ASTM D1401

Type of the scope: *flexible**

Nº	Tested products	Type of test / characteristic	Testing methods (standard / validated method)
1	2	3	4
		3.9. Color	БДC ISO 2049 ASTM D1500
		3.10. Water Content	БДC ISO 3733 БДC ISO 760
		3.11. Mechanical Impurities	БДC 17411
		3.12. Corrosion on Copper Strip	БДC EN ISO 2160 ASTM D130
		3.13. Rust-Preventing Characteristics in Presence of Distilled Water and Synthetic Sea Water	БДC ISO 7120 ASTM D665A
		3.14. Phosphorus Content	ASTM D4951
		3.15. Wear Preventive Characteristics on Four-Ball Machine - Anti-Wear Index - Scar Diameter	БДC 9786 ASTM D4172
		3.16. EP Properties on Four-Ball Machine - Load-Wear Index - Weld Point	БДC 9787 ASTM D2783
		3.17. Storage Stability and Compatibility	БДC 14348
		3.18. Elements Content /metals and non-metals/: Silver, Aluminum, Barium, Boron, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Tin, Titanium, Silicon, Vanadium, Nickel, Sodium, Calcium, Zinc, Phosphorus	ASTM D5185
		4.1. Kinematic Viscosity	БДC EN ISO 3104 Procedure A ASTM D445 ASTM D7042
		4.2. Viscosity Index	БДC ISO 2909 ASTM D2270
		4.3. Density	БДC EN ISO 3675 ASTM D1298 ASTM D4052
4.	Turbine oils	4.4. Flash Point Open Cup	БДC EN ISO 2592 ASTM D92
		4.5. Flash Point Closed Cup	БДC EN ISO 2719 ASTM D93
		4.6. Pour Point	БДC EN ISO 3016 ASTM D97
		4.7. Acid Number	БДC 1752, Method A БДC ISO 6618 ASTM D974
		4.8. Water Separability -Demulsifying Properties -Water Separating Ability	БДC ISO 6614 ASTM D1401 БДC 17249 DIN 51589-1
		4.9. Foaming Characteristics (Tendency and Stability)	БДC ISO 6247 ASTM D892
		4.10. Air Release Properties	БДC ISO 9120 ASTM D3427
		4.11. Color	БДC ISO 2049 ASTM D1500
		4.12. Water Content	БДC ISO 3733 БДC ISO 760

Type of the scope: <i>flexible</i> *			
№	Tested products	Type of test / characteristic	Testing methods (standard / validated method)
1	2	3	4
		4.13. Level of Contamination by Solid Particles	БДC ISO 4406 ISO 11500
		4.14. Corrosion on Copper Strip	БДC EN ISO 2160 ASTM D130
		4.15. Rust-Preventing Properties in Presence of Distilled Water and Synthetic Sea Water	БДC ISO 7120 ASTM D665
		4.16. Oxidation Stability - RPVOT	ASTM D2272, Method A
		4.17. Storage Stability and Compatibility	БДC 14348
		4.18. Elements Content /metals and non-metals/: Silver, Aluminum, Barium, Boron, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Tin, Titanium, Silicon, Vanadium, Nickel, Sodium, Calcium, Zinc, Phosphorus	ASTM D5185
5.	Hydraulic oils	5.1. Kinematic Viscosity	БДC EN ISO 3104, Procedure A ASTM D445 ASTM D7042
		5.2. Viscosity Index	БДC ISO 2909 ASTM D2270
		5.3. Density	БДC EN ISO 3675 ASTM D1298 ASTM D4052
		5.4. Flash Point Open Cup	БДC EN ISO 2592 ASTM D92
		5.5. Flash Point Closed Cup	БДC EN ISO 2719 ASTM D93
		5.6. Pour Point	БДC EN ISO 3016 ASTM D97
		5.7. Acid Number	БДC 1752, Method A БДC ISO 6618
		5.8. Water Separability (Demulsifying Properties)	БДC ISO 6614 ASTM D1401
		5.9. Foaming Characteristics (Tendency and Stability)	БДC ISO 6247 ASTM D892
		5.10. Air Release Properties	БДC ISO 9120 ASTM D3427
		5.11. Color	БДC ISO 2049 ASTM D1500
		5.12. Water Content	БДC ISO 3733 БДC ISO 760
		5.13. Mechanical Impurities	БДC 17411
		5.14. Level of Contamination by Solid Particles	БДC ISO 4406 ISO 11500
		5.15. Water Soluble Acids and Bases	БДC 5252
		5.16. Corrosion on Copper Strip	БДC EN ISO 2160 ASTM D130
		5.17. Rust-Preventing Characteristics in Presence of Distilled Water and Synthetic Sea Water	БДC ISO 7120 ASTM D665
		5.18. Wear Preventive Characteristics on Four-Ball Machine	

Type of the scope: flexible*			
№	Tested products	Type of test / characteristic	Testing methods (standard / validated method)
1	2	3	4
		- Scar Diameter	ASTM D4172
		5.19. EP Properties on Four-Ball Machine - Weld Point	ASTM D2783
		5.20. Shear Stability	ASTM D6278
		5.21. Storage Stability and Compatibility	БДC 14348
		5.22. Elements Content /metals and non-metals/: Silver, Aluminum, Barium, Boron, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Tin, Titanium, Silicon, Vanadium, Nickel, Sodium, Calcium, Zinc, Phosphorus, mg/kg	ASTM D5185
6.	Compressor oils	6.1. Kinematic Viscosity	БДC EN ISO 3104, Procedure A ASTM D445
		6.2. Viscosity Index	БДC ISO 2909 ASTM D2270
		6.3. Density	БДC EN ISO 3675 ASTM D1298
		6.4. Flash Point Open Cup	БДC EN ISO 2592 ASTM D92
		6.5. Freezing Point	БДC 1751
		6.6. Acid Number	БДC 1752, Method A БДC ISO 6618
		6.7. Color	БДC ISO 2049 ASTM D1500
		6.8. Water Content	БДC ISO 3733
		6.9. Mechanical Impurities	БДC 17411
		6.10. Carbon Residue	БДC ISO 6615
		6.11. Corrosion on Copper Strip	БДC EN ISO 2160 ASTM D130
		6.12. Rust-Preventing Characteristics in Presence of Distilled Water and Synthetic Sea Water	БДC ISO 7120 ASTM D665
		6.13. Wear Preventive Characteristics on Four-Ball Machine - Anti-Wear Index - Scar Diameter	БДC 9786 ASTM D4172
		6.14. Water Separability (Demulsifying Properties)	БДC ISO 6614 ASTM D1401
		6.15. Ash	БДC EN ISO 6245 ASTM D482
7.	Transmission Oils	7.1. Kinematic Viscosity	БДC EN ISO 3104, Procedure A ASTM D445 ASTM D7042
		7.2. Viscosity Index	БДC ISO 2909 ASTM D2270
		7.3. Density	БДC EN ISO 3675 ASTM D1298 ASTM D4052
		7.4. Flash Point Open Cup	БДC EN ISO 2592 ASTM D92
		7.5. Flash Point Closed Cup	БДC EN ISO 2719 ASTM D93

Type of the scope: <i>flexible</i> *			
№	Tested products	Type of test / characteristic	Testing methods (standard / validated method)
1	2	3	4
		7.6. Pour Point	БДС EN ISO 3016 ASTM D97
		7.7. Foaming Characteristics (Tendency and Stability)	БДС ISO 6247 ASTM D892
		7.8. Color	БДС ISO 2049 ASTM D1500
		7.9. Water Content	БДС ISO 3733
		7.10. Mechanical Impurities	БДС 17411
		7.11. Phosphorus Content	ASTM D4951
		7.12. Viscosity at Low Temperature (Brookfield)	ASTM D2983, Procedure A
		7.13. Wear Preventive Characteristics on Four-Ball Machine - Anti-Wear Index - Scar Diameter	БДС 9786 ASTM D4172
		7.14 EP Properties on Four-Ball Machine - Load-Wear Index - Weld Point - Last Non-Seizure Load	БДС 9787 ASTM D2783
		7.15. Corrosion on Copper Strip	БДС EN ISO 2160 ASTM D130
		7.16. Rust-Preventing Characteristics in Presence of Distilled Water and Synthetic Sea Water	БДС ISO 7120 ASTM D665
		7.17. Compatibility and Storage Stability	БДС 14348
		7.18. Level of Contamination by Solid Particles	БДС ISO 4406 ISO 11500
8.	Transformer Oils	8.1. Kinematic Viscosity	БДС EN ISO 3104, Procedure A ASTM D445 ASTM D7042
		8.2. Density	БДС EN ISO 3675 ASTM D1298 ASTM D4052
		8.3. Flash Point Closed Cup	БДС EN ISO 2719 ASTM D93
		8.4. Pour Point	БДС EN ISO 3016 ASTM D97
		8.5. Acid Number	БДС 1752, Method A БДС ISO 6618 БДС EN 62021-1
		8.6. Color	БДС ISO 2049 ASTM D1500
		8.7. Appearance	БДС EN IEC 60296
		8.8. Water Soluble Acids and Bases	БДС 5252
		8.9. Water Content	БДС EN 60814, cl.2
		8.10. Antioxidant Content (2-6-di-tert-butyl-p-cresol)	БДС EN 60666 (FT-IR Method)
		8.11. Corrosion Sulfur	DIN 51353
		8.12. Dielectric Dissipation Factor at 90°C	БДС EN 60247
		8.13. Inter-phase Tension	ASTM D971
		8.14. Breakdown Voltage (up to 70 kV)	БДС EN 60156
		8.15. Oxidation Stability	БДС EN IEC 61125

Type of the scope: <i>flexible</i> *			
№	Tested products	Type of test / characteristic	Testing methods (standard / validated method)
1	2	3	4
		8.16. Level of Contamination by Solid Particles	БДC ISO 4406 ISO 11500
		8.17. Compatibility and Storage Stability	БДC 14348
		8.18. Refractive Index	БДC ISO 5661
9.	Motor Oils	9.1. Kinematic Viscosity	БДC EN ISO 3104, Procedure A ASTM D445 ASTM D7042
		9.2. Viscosity Index	БДC ISO 2909 ASTM D2270
		9.3. CCS-Viscosity at Negative Temperatures	ASTM D5293
		9.4. Density	БДC EN ISO 3675 ASTM D1298 ASTM D4052
		9.5. Flash Point Open Cup	БДC EN ISO 2592 ASTM D92
		9.6. Flash Point Closed Cup	БДC EN ISO 2719 ASTM D93
		9.7. Freezing Point	БДC 1751
		9.8. Pour Point	БДC EN ISO 3016 ASTM D97
		9.9. Base Number	ASTM D2896
		9.10. Foaming Characteristics (Tendency and Stability)	БДC ISO 6247 ASTM D892
		9.11. Color	БДC ISO 2049 ASTM D1500
		9.12. Water Content	БДC ISO 3733
		9.13. Mechanical Impurities	БДC 17411
		9.14. Sulfated Ash	БДC ISO 3987 ASTM D874
		9.15. Evaporation by Noack	ASTM D5800, Procedure A
		9.16. Phosphorus Content	ASTM D4951
		9.17. Zinc Content	ASTM D4951
		9.18. Calcium Content	ASTM D4951
		9.19. Sulfur Content	БДC EN ISO 8754 ASTM D4294
		9.20. Pumping Apparent Viscosity /MRV/	ASTM D4684, Procedure B
		9.21. Shear Stability	ASTM D6278
		9.22. Saponification Number	БДC ISO 6293-1 ASTM D94, Method A
		9.23. Compatibility and Storage Stability	БДC 14348
		9.24. Elements Content /metals and non-metals/: Silver, Aluminum, Barium, Boron, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Tin, Titanium, Silicon, Vanadium, Nickel, Sodium, Calcium, Zinc, Phosphorus	ASTM D5185
		9.25. Rust-Preventing Characteristics in Presence of Distilled Water and Synthetic Sea Water	БДC ISO 7120 ASTM D665
10.	Aviation Oils	10.1. Kinematic Viscosity	БДC EN ISO 3104, Procedure A

Type of the scope: <i>flexible</i> *			
Nº	Tested products	Type of test / characteristic	Testing methods (standard / validated method)
1	2	3	4
			ASTM D445
		10.2. Viscosity Index	БДC ISO 2909 ASTM D2270
		10.3. Density	БДC EN ISO 3675 ASTM D1298
		10.4. Flash Point Open Cup	БДC EN ISO 2592 ASTM D92
		10.5. Freezing Point	БДC 1751
		10.6. Pour Point	БДC EN ISO 3016 ASTM D97
		10.7. Acid Number	БДC ISO 6618
		10.8. Color	БДC ISO 2049 ASTM D1500
		10.9. Water Content	БДC ISO 3733
		10.10. Mechanical Impurities	БДC 17411
		10.11. Water Soluble Acids and Bases	БДC 5252
		10.12. Ash	БДC EN ISO 6245 ASTM D482
		10.13. Carbon Residue	БДC ISO 6615
11.	Metalworking Fluids	11.1. Kinematic Viscosity	БДC EN ISO 3104, Procedure A ASTM D445
		11.2. Density	БДC EN ISO 3675 ASTM D1298
		11.3. Flash Point Open Cup	БДC EN ISO 2592 ASTM D92
		11.4. Saponification Number	БДC ISO 6293-1 ASTM D94, Method A
		11.5. Pour Point	БДC EN ISO 3016 ASTM D97
		11.6. Base Number	ASTM D2896
		11.7. pH value	БДC 16749
		11.8. Color	БДC ISO 2049 ASTM D1500
		11.9. Mechanical Impurities	БДC 17411
		11.10. Water Content	БДC ISO 3733
		11.11. Corrosion on Copper Strip	БДC EN ISO 2160 ASTM D130
12.	Brake Fluids	12.1. Kinematic viscosity	БДC EN ISO 3104, Procedure A ASTM D445 ASTM D7042
		12.2. Density	БДC EN ISO 3675 ASTM D1298 ASTM D4052
		12.3. Flash Point Open Cup	БДC EN ISO 2592 ASTM D92
		12.4. Boiling Point	ISO 4925
		12.5. pH value	ISO 4925
		12.6. High-temperature Stability	ISO 4925
13.	Coolants	13.1. Appearance	БДC 10126
		13.2. Relative Density	ASTM D1122
		13.3. Boiling point	БДC 10126 ASTM D1120
		13.4. Crystallization temperature	БДC 10126

Type of the scope: <i>flexible</i> *			
№	Tested products	Type of test / characteristic	Testing methods (standard / validated method)
1	2	3	4
			ASTM D1177
		13.5. pH value	БДС 10126 ASTM D1287
		13.6. Alkalinity	БДС 10126 ASTM D1121
		13.7. Mechanical Impurities	БДС 10126
		13.8. Foaming (Volume and Break time)	БДС 10126 ASTM D1881
		13.9. Loss of Mass at Corrosion Test (copper, solder, brass, steel, cast-iron, cast-aluminum)	БДС 10126 ASTM D1384
		13.10. Resistance to hard water	БДС 10126
14.	Nitrogen Oxides (NOx) Reduction Agent AUS 32	14.1. Urea Content	ISO 22241-2, Annex C
		14.2. Refractive index	ISO 22241-2, Annex C
		14.3. Alkalinity	ISO 22241-2, Annex D
		14.4. Biuret	ISO 22241-2, Annex E
		14.5. Aldehydes	ISO 22241-2, Annex F
		14.6. Insoluble substances	ISO 22241-2, Annex G
		14.7. Phosphates	ISO 22241-2, Annex H
		14.8. Metals Content: Aluminum, Calcium, Chromium, Copper, Iron, Magnesium, Sodium, Nickel, Zinc	ISO 22241-2, Annex I

To perform sampling of:

Type of the scope: <i>flexible</i> *		
№	Product	Sampling methods (standardized/ validated)
1	2	3
1.	Base Oil components	БДС EN ISO 3170
2.	Lubricating Oils AN	БДС EN ISO 3170
3.	Gear Oils	БДС EN ISO 3170
4.	Turbine Oils	БДС EN ISO 3170
5.	Hydraulic Oils	БДС EN ISO 3170
6.	Compressor Oils	БДС EN ISO 3170
7.	Transmission Oils	БДС EN ISO 3170
8.	Transformer Oils	БДС EN IEC 60475
9.	Motor Oils	БДС EN ISO 3170
10.	Aviation Oils	БДС EN ISO 3170
11.	Metalworking Fluids	БДС EN ISO 3170
12.	Brake Fluids	БДС EN ISO 3170
13.	Coolants	БДС EN ISO 3170

***Flexible scope:** Implementing a new version of standards/documents or standards / documents replacing them is allowed. An updated list of standards/documents and their dated versions is provided by laboratory.

I ORDER

To issue the certificate of accreditation reg. № 31 ЛИ/13.08.2024, valid until 18.12.2027, and this order as an integral part of it.

The certificate of accreditation with the enclosure to be received at the office of EA BAS by the executive director of Prista Oil Holding AD, Ruse, the head of Petroleum Products Testing Laboratory at Prista Oil Holding AD, Ruse, or other authorized person in the office of EA BAS.

Upon receipt of the certificate and the enclosure issued, the accredited person is obliged to return to EA BAS the originals of accreditation certificate № 31 ЛИ/15.02.2024, valid until 18.12.2027 and its enclosure – EA BAS order reg. № A 73/15.02.2024.

This order shall be notified to Prista Oil Holding AD, Ruse, within 3 (three) days from its issuance.

Eng. Irena Borislavova

Executive Director of EA BAS

