

**MODRIČA**
OIL REFINERY

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<u>R.br.</u> <u>No.</u>	<u>Vrsta ispitivanja / Karakteristika</u>	<u>Type of test / Property</u>	<u>Metode ispitivanja</u> <u>Test method</u>
1.°	ODREĐIVANJE KINEMATSKE VISKOZNOSTI I IZRAČUNAVANJE DINAMIČKE VISKOZNOSTI	Determination of kinematic viscosity and calculation of dynamic viscosity	BAS EN ISO 3104 ISO 3104
2.°	IZRAČUNAVANJE IV IZ KINEMATSKE VISKOZNOSTI	Calculation of viscosity index from kinematic viscosity	BAS ISO 2909 ISO 2909
3.°	ODREĐIVANJE TAČKE ZAMUČENJA	Determination of cloud point	BAS ISO 3015 ISO 3015
4.°	ODREĐIVANJE TAČKE TEČENJA	Determination of pour point	BAS ISO 3016 ISO 3016
5.°	ODREĐIVANJE BOJE NAFTNIH PROIZVODA	Determination of colour (ASTM scale)	BAS ISO 2049 ISO 2049
6.°	ODREĐIVANJA SVOJSTVA PJENUŠANJA ULJA ZA PODMAZIVANJE	Determination of foaming characteristics of lubricating oils	BAS ISO 6247 ISO 6247
7.°	ODREĐIVANJE EMULZIONIH KARAKTERISTIKA	Determination of water separability of petroleum oils and synthetic fluids	BAS ISO 6614 ISO 6614
8.°	ODREĐIVANJE UKUPNOG BAZNOG BROJA POTENCIOMETRIJSKOM TITRACIJOM SA PERHLORNOM KISELINOM	Determination of base number – Perchloric acid potentiometric titration method	BAS ISO 3771 ISO 3771
9.°	ODREĐIVANJE NEUTRALIZACIONOG BROJA POTENCIOMETRIJSKOM TITRACIJOM	Acid Number of Petroleum Products by Potentiometric Titration	ASTM D 664
10.°	ODREĐIVANJE NEUTRALIZACIONOG BROJA I SLOBODNIH MINERALNIH KISELINA I BAZA	Neutralization number – Potentiometric titration method	BAS ISO 6619 ISO 6619
11.°	ODREĐIVANJE TAČKE PALJENJA I TAČKE GORENJA POMOĆU OTVORENE POSUDE	Determination of flash and points – Cleveland open cup method	BAS ISO 2592 ISO 2592
12.°	ODREĐIVANJE KOROZIVNOSTI NAFTNIH DERIVATA POMOĆU BAKARNE TRAKE	Corrosiveness to Copper from Petroleum Products by Copper Strip Test	ASTM D 130
13.°	ODREĐIVANJE KOKSA PO KONRADSONU	Determination of carbon residue – Conradson method	BAS ISO 6615 ISO 6615
14.°	ODREĐIVANJE SADRŽAJA SULFATNOG PEPELA	Determination of sulfated ash	BAS ISO 3987 ISO 3987
15.°	ODREĐIVANJE SADRŽAJA OKSIDNOG PEPELA	Determination of ash	BAS EN ISO 6245 ISO 6245
16.°	ODREĐIVANJE GUBITAKA ISPARAVANJEM-NOACK TEST	Evaporation Loss of Lubricating Oils by the Noack Method	DIN 51581 ASTM D 5800
17.°	ODREĐIVANJE PRIVIDNOG VISKOZITETA NA NISKIM TEMPERATURAMA-CCS	Apparent Viscosity of Engine Oils Between -5 and -35C Using the Cold-Cranking Simulator	ASTM D 5293
18.°	ODREĐIVANJE SADRŽAJA VODE KULOMETRIJSKI – po KF-u	Determination of water – Coulometric Karl Fisher titration method	BAS EN ISO 12937 ISO 12937
19.°	ODREĐIVANJE TAČKE PALJENJA U ZATVORENOM SUDU, PMs	Determination of flash point – Pensky-Martens closed cup method	BAS EN ISO 2719 EN ISO 2719
20.°	TEST ISTROŠENJA (METODA SA 4 KUGLICE)	Wear Preventive Characteristics of Lubricating Grease (Four – Ball Method)	ASTM D 2266
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24.	ODREĐIVANJE NAPONA ISTEZANJA (YIELD STRESS) I PRIVIDNE VISKOZNOSTI MOTORNIH ULJA NA NISKIM TEMPERATURAMA	Determination of Yield Stress and Apparent Viscosity of Engine Oils at Low Temperature	ASTM D 4684
25.	ODREĐIVANJE GRANIČNE TEMPERATURE PUMPABILNOSTI MOTORNOG ULJA	Predicting the Borderline Pumping Temperature of Engine Oil	ASTM D 3829
26.°	ODREĐIVANJE SPOSOBNOSTI ULJA ZA IZDVAJANJE VAZDUHA	Determination of air-release properties of steam turbine other oils – Impinger method	BAS ISO 9120 ISO 9120

27. °	ODREĐIVANJE SAPONIFIKACIONOG BROJA	Determination of saponification number	BAS ISO 6293-1 i 2 ISO 6293-1 i 2
28. °	ODREĐIVANJE DIELEKTRIČNE ČVRSTOĆE IZOLACIONIH ULJA	Determination of the breakdown voltage at power frequency, Insulating liquids	IEC 156 EN 60156
29. °	ODREĐIVANJE TAČKE KAPANJA MAZIVIH MASTI	Determination of dropping point, Lubricating grease	BAS ISO 2176 ISO 2176
30. °	ODREĐIVANJE PENETRACIJE MAZIVIH MASTI POMOĆU KONUSA	Determination of cone penetration, Lubricating grease and petrolatum	BAS ISO 2137 ISO 2137
31. °	ODREĐIVANJE OKSIDACIONE STABILNOSTI MAZIVIH MASTI- METODA SA KISEONIKOM	Oxidation Stability of Lubricating Greases by the Oxygen Pressure Vessel Method	ASTM D 942
32. °	ODREĐIVANJE OTPORNOSTI MAZIVIH MASTI PREMA VODI	Determination the Water Washout Characteristics of Lubricating Greases	ASTM D 1264
33. °	IZDVAJANJE ULJA IZ MAZIVIH MASTI U STATIČKIM USLOVIMA	Determination of oil separation from lubricating grease under static conditions	DIN 51817
34. °	ODREĐIVANJE KOROZIJE TEČNOSTI ZA HLAĐENJE	Corrosion Test for Engine Coolants in Glassware	ASTM D 1384
35. °	ODREĐIVANJE BIOHEMIJSKE POTROŠNJE KISEONIKA	Determination of biochemical oxygen demand after n days (BODn) - Water quality	BAS ISO 1899-2 EN 1899-2
36. °	ODREĐIVANJE HEMIJSKE POTROŠNJE KISEONIKA	Determination of the chemical oxygen demand – Water quality	JUS ISO 6060 ISO 6060
37. °	ODREĐIVANJE pH VODE	Determination of pH – Water quality	BAS ISO 10523 ISO 10523
38. °	ODREĐIVANJE ULJA I MASTI U VODI	Testing of water. Determination of oils and fats (Method with aluminium sulphate)	JUS H.Z1. 150
39. °	ODREĐIVANJE ALKALITETA	Water quality Determination of alkalinity	JUS H.Z1.124
40. °	ODREĐIVANJE SADRŽAJA GVOŽĐA U VODI	Determination of iron – Spectrometric method using 1.10-phenanthroline – Water quality	BAS ISO 6332 ISO 6332
41. °	RASTVORLJIVI KISEONIK U VODI	Determination of dissolved oxygen – Elektrochemical probemethod	ISO 5814
42. °	ODREĐIVANJE SUSPENDOVANIH MATERIJA U VODI	Determination of suspended matters, Gravimetric method	JUS H.Z1. 160
43. °	CIJEPANJE EMULZIJE KISELINOM	Determination of fraction separated by hydrochloric acid (from water mix metal working fluids)	DIN 51368
44. °	KOROZIJA EMULZIJE (PAPIR TEST)	Determination of corrosion preventing characteristics of cooling lubricants mixed with water, (Herbert corrosion test)	DIN 51360
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46. °	ODREĐIVANJE TAČKE OČVRŠĆAVANJA PARAFINA	Determination of melting point (cooling curve) – Petroleum waxes	ISO 3841
47. °	PENETRACIJA PARAFINA	Needle Penetration of Petroleum Waxes	ASTM D 1321
48. °	FILTRABILNOST (CPPF)	Determination of cold filter plugging point	BAS ISO 116 EN 116
49. °	RAVNOTEŽNA TAČKA KLJUČANJA	Determination of the equilibrium boiling point – Brake fluid testing	JUS H.Z8.062
50. °	ODREĐIVANJE REZERVNE ALKALNOSTI	Reserve Alkalinity of Engine Coolants and Antirusts	ASTM D 1121
51. °	ODREĐIVANJE PH VRIJEDNOSTI TEČNOSTI ZA HLAĐENJE	pH of Engine Coolants and Antirusts	ASTM D 1287
52. °	ODREĐIVANJE TAČKE KLJUČANJA TEČNOSTI ZA HLAĐENJE	Boiling Point of Engine Coolants	ASTM D 1120
53.	ODREĐIVANJE ANILINSKE TAČKE I MJEŠOVITE ANILINSKE TAČKE	Determination of aniline point and mixed aniline point	ISO 2977
54. °	ODREĐIVANJE ELEKTRIČNE PROVODLJIVOSTI	Determination of electrical conductivity – Water quality	ISO 7888
55. °	ODREĐIVANJE NEUTRALIZACIONOG BROJA I SLOBODNIH MINERALNIH KISELINA I BAZA	Determination of acid or base number	BAS ISO 6618 ISO 6618
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57.	ODREĐIVANJE INDEKSA REFRAKCIJE	Determination of refractive index	ISO 5661
58.	ODREĐIVANJE GUSTINE POMOĆU AREOMETRA	Laboratory determination of density. Hydrometer method	BAS ISO 3675 ISO 3675
59.	ODREĐIVANJE ZAPREMIJSKE MASE POMOĆU PIKNOMETRA	Determination of density at 20°C	JUS H.B8. 030
60.	ODREĐIVANJE SMIČNE STABILNOSTI MAZIVIH ULJA SA POLIMERNIM ADITIVIMA	Determination of shear stability of polimer-containing lubricating oils by the diesel injector nozzle method	DIN 51382
61.	NERASTVORNO U PENTANU I BENZOLU	Insolubles in used lubricating oils	ASTM D 893
62.	DESTILACIJA NAFTNIH PROIZVODA PRI SMANJENIM PRITISCIMA	Distillation of petroleum products at reduced pressures	ASTM D 1160
63.	ODREĐIVANJE VISKOZITETA NA NISKIM TEMPERATURAMA POMOĆU BROOKFIELD VISKOZIMETRA	Low-Temperature Viscosity of Automotive Fluid Lubricants Measured by Brookfield Viscometer	ASTM D 2983
64.	ANALITIČKA METODA ZA ODREĐIVANJE OSTATAKA HLORNIH KOMPONENATA	EDELEANU Method	ED-NO 9-71
65.	ODREĐIVANJE MEĐUPOVRŠINSKE NAPETOSTI METODOM PRSTENA	Determination of interfacial tension of oil against water – Ring method	ISO 6295
66.	ODREĐIVANJE FAKTORA DIELEKTRIČNIH GUBITAKA IZOLACIONIH ULJA	Methods for the determination of the permittivity and dielectric dissipation factor of electrical insulating materials at power, audio and radio frequencies, including metre wavelengths	JUS N.A5.015 IEC 246

67.	ISPITIVANJE OKSIDACIONE STABILNOSTI IZOLACIONIH ULJA	Unused hydrocarbon-based insulating liquids Test methods for evaluating the oxidation stability	IEC 1125 EN 61125
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74.	ODREĐIVANJE TAČKE MRŽNENJA TEČNOSTI ZA HLADENJE	Standard Test Method for Freezing Point of Aqueous Engine Coolants	ASTM D 1177
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79.	ODREĐIVANJE VODE METODOM DESTILACIJE	Determination of water – Distillation method	BAS ISO 3733
80.	ODREĐIVANJE ALKALITETA-prvi dio UKUPNI I POJEDINAČNI ALKALITET	Water quality – Determination of alkalinity-Part 1: <i>Determination of total and composite alkalinity</i>	EN ISO 9963-1
81.	ODREĐIVANJE ALKALITETA-drugi dio KARBONATNI ALKALITET	Water quality – Determination of alkalinity-Part 2: <i>Determination of carbonate alkalinity</i>	EN ISO 9963-2
82.	ODREĐIVANJE RASTVORENOG KISEONIKA JODOMETRIJSKA METODA	Water quality – Determination of dissolved oxygen – Iodometric method	EN 25813
83.	ODREĐIVANJE SADRŽAJA FOSFORA U VODI	Water quality – Phosphorus, Total	EPA 365.4
84.	ODREĐIVANJE SLOBODNOG HLORA I UKUPNOG HLORA – prvi dio- TITRIMETRIJSKA METODA SA N,N –1,4-FENILENDIAMINOM	Water quality – Determination of free chlorine and total chlorine – Part 2: Colorimetric method using N,N-diethyi-1,4-phenyenediamine, for routine control purposes	EN ISO 7393/2
85.	ODREĐIVANJE SLOBODNOG HLORA I UKUPNOG HLORA – treći dio- METODA JODOMETRIJSKE TITRACIJE ZA ODREĐIVANJE SLOBODNOG HLORA	Water quality – Determination of free chlorine and total chlorine – Part 3: Iodometric titration method for the determination of total chlorine	EN ISO 7393/3
86.	ODREĐIVANJE KOLIČINE KALCIJUMA-EDTA TITRIMETRIJSKI METOD	Water quality – Determination of calcium content – EDTA titrimetric method	ISO 6058
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131.	HIDRAULIČNI FLUIDI ZA PRENOS SNAGE FLUIDI METODA KODIRANJA NIVOA ZAPRLJANOSTI ČVRSTIM ČESTICAMA	Hydraulic fluid power Fluids Method for coding the level of contamination by solid particles	ISO 4406:1987
132.	HIDRAULIČNI FLUIDI ZA PRENOS SNAGE FLUIDI METODA KODIRANJA NIVOA ZAPRLJANOSTI ČVRSTIM ČESTICAMA	Hydraulic fluid power Fluids Method for coding the level of contamination by solid particles	NAS 1638
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146.	ODREĐIVANJE Ca, Mg, Fe, Cu, Zn, Al, Si, Sn, Mo, Sb, Na, K, Pb, Cr, Ni, V, Co, Sr, Ba, Li u mazivima pomoću AAS	Determination Ca, Mg, Fe, Cu, Zn, Al, Si, Sn, Mo, Sb, Na, K, Pb, Cr, Ni, V, Co, Sr, Ba, Li in Lubrication Oils by AAS	Uputstvo proizvođača AAS-a
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149.	STANDARDNA TEST METODA ZA ODREĐIVANJE GUSTINE TEČNOSTI ZA HLAĐENJE	Density or Relative Density of Engine Coolants By the Hydrometer	ASTM D 1122
150.	ODREĐIVANJE SADRŽAJA PCA U NFTNIM FRAKCIJAMA	Polycyclic Aromatics in Petroleum Fractions By Dimethyl Sulphoxide – Refractive index Method	IP 346
151.	ODREĐIVANJE SADRŽAJA HLORA U NFTNIM FRAKCIJAMA - MIKROKULOMETRIJSKI	Determining Organic Chloride in Aromatic Hydrocarbons and Related Chemicals by Microcoulometry	ASTM D 5808
152.	OKSIDACIONA STABILNOST TURBINSKIH ULJA-RPVOT	Standard Test Method for Oxidation Stability of Steam Turbine Oils by Rotating Pressure Vessel	ASTM D 2272
153.	ODREĐIVANJE SADRŽAJA MIKROKOKSA U NAFTNIM DERIVATIMA	Determination of Carbon Residue (Micro Method)	ASTM D 4530 ISO 10370
154.	SIROVI I RAFINISANI ETIL-ALKOHOL (ETANOL), FERMENTISANI (UZIMANJE UZORAKA I METODE ISPITIVANJA)	Crude and rectified ethyl-alcohol (ethanol)-Fermented. Sampling and testing	JUS/SRPS E.M.8.030
155.	AMONIJAK TEČNI, BEZVODNI (UZIMANJE UZORAKA I METODE ISPITIVANJA)	Ammonia anhydrous. Sampling and methods of tests.	JUS/SRPS H.M.8.057
156.	ODREĐIVANJE SADRŽAJA AZOTA U VODI	Determination of Total Nitrogen	Spektrofotometrijski
157.	ODREĐIVANJE HEMIJSKE POTROŠNJE KISEONIKA - HPK	Determination of COD	ISO 15705:2002
158.	ODREĐIVANJE TAČKE TEČENJA NAFTNIH PRODUKATA – AUTOMATSKI (ROTACIONI METOD)	Standard Test Method for Pour Point of Petroleum Products (Rotational Method)	ASTM D 5985
159.	SIROVI I RERAFINISANI ETIL-ALKOHOL (ETANOL), FERMENTISANI (UZIMANJE UZORAKA I METODE ISPITIVANJA)	Crude and rectified ethyl-alcohol (ethanol) – Fermented. Sampling and testing	JUS E.M.8.030
160.	DIESEL ENGINES – NO _x REDUCTION AGENT AUS 32: ISPITNE METODE	DIESEL ENGINES – NO _x REDUCTION AGENT AUS 32: TEST METHODS	ISO 22241-2
161.	AMONIJAK TEČNI, BEZVODNI (UZIMANJE UZORAKA I METODE ISPITIVANJA)	Ammonia anhydrous. Sampling and methods of tests	JUS H.M.57.058
162.	NATRIJUM HIDROKSID ZA INDUSTRIJSKU UPOTREBU (ODREĐIVANJE KONCENTRACIJE)	Sodium hydroxide for industrial use – Method of assay	ISO 979
163.	HLOROVODONIČNA KISELINA ZA INDUSTRIJU UPOTREBU, (ODREĐIVANJE KONCENTRACIJE)	Hydrochloric acid for industrial use Determination of total acity – Titrimetic method	ISO 904
164.®	ODREĐIVANJE SADRŽAJA ELEMENATA OD ADITIVA, HABANJA I KONTAMINACIJ U KORIŠĆENIM MAZIVIMA I BAZNIM ULJIMA POMOĆU ICP-AES	Determination of Additive Elements, Wear Metals, and Contaminants in Used Lubricating Oil and determination of Selected Elements in Base Oil by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES)	ASTM D 5185
165.	MIKROVALNA DIGESTIJA POMOĆU KISELINE	Microwave Assisted Acid Digestion of Sediment, Sludges, Soil and Oils	EPA 305.1
166.	ODREĐIVANJE SADRŽAJA ELEMENATA OD ADITIVA U MAZIVIMA POMOĆU ICP-OES	Determination of Additive Elements in Lubricating Oil by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES)	ASTM D 4951
167.	ODREĐIVANJE SADRŽAJA ULJA I MASTI U VODI I OTPADNOJ VODI POMOĆU IR-A	Standard Test Method for dimer/trimer of chlorotrifluoroethylen (S-316) Recoverable Oil and Grease and Nonpolar Material by Infrared Determination	ASTM D 7066
168.	ODREĐIVANJE FAKTORA DIELEKTRIČNIH GUBITAKA – TANGENS DELTA I ELEKTRIČNOG OTPORA	Measurement of Relative Permittivity, Dielectric Dissipation Factor (tan d) and D.C. Resistivity – Insulating liquids	IEC 60247
169.	ODREĐIVANJE FAKTORA DIELEKTRIČNIH GUBITAKA – TANGENS DELTA	Determination of the permittivity dissipation factor through of the conductance test process – Insulating liquids	IEC 61620
170.	ODREĐIVANJE FAKTORA DIELEKTRIČNIH GUBITAKA – TANGENS DELTA I DIELEKTRIČNE KONSTANTE	Dissipation Factor (or Power Factor) and Relative Permittivity (Dielectric Constant) of Elektrical Insulating Liquids	ASTM D 942
171.	ODREĐIVANJE FAKTORA DIELEKTRIČNIH GUBITAKA – TANGENS DELTA I DIELEKTRIČNE KONSTANTE	Dissipation Factor (or Power Factor) and Relative Permittivity (Dielectric Constant) of Elektrical Insulating Liquids	ASTM D 1169
172.	MONITORING KORIŠĆENOG ULJA POMOĆU FT-IR SPEKTROMETRIJE	Condition Monitoring of Used Lubricants by Trend Analysis Using Fourier Transform Infrared (FT-IR) Spectrometry	ASTM D 2412

173.®	ODREĐIVANJE DINAMIČKE VISKOZNOSTI TEČNOSTI POMOĆU STABINGEROVOG VISKOZIMETRA I RAČUNANJE KINEMATSKE VISKOZNOSTI	Dynamic Viscosity of Liquids by Stabinger Viscometer (and the Calculation of Kinematic Viscosity)	ASTM D 7042
174.	ODREĐIVANJE TIPA HIDROKARBONATA	Carbon-Type Composition of Insulating Oils of Petroleum Origin	ASTM D 2140
175.	ODREĐIVANJE SADRŽAJA SILICIJUMA I OSTALIH ELEMENATA U RASHLADNIM TEČNOSTIMA POMOĆU ICP-OES	Determination of Silicon and Other Elements in Engine Coolant by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES)	ASTM D 6130
176.	ODREĐIVANJE SADRŽAJA ULJA U PARAFINU POMOĆU NMR-A	Oil in Wax	MQC-23-37
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178.	MIKROVALNA DIGESTIJA KISELINOM SILIKATNIH I ORGANSKIH BAZNIH MATRIKSA	Microwave assisted acid digestion of siliceous and organically based matrices	EPA 3052
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180.	ODREĐIVANJE SADRŽAJA PCB	Determination of PCB	EPA 9079
181.	ODREĐIVANJE SADRŽAJA ELEMENATA HABANJA I KONTAMINACIJE U RABLJENIM ULJIMA	WEARS METALS	TXMS-05A.V1.PLS
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<i>R.br.</i>	<i>NAPOMENA</i>
1.	® PODRUČJE AKREDITACIJE / SCOPE OF ACCREDITATION

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