

Tests List







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REPSOL TECHNOLOGY LAB REFERENCE	TYPE OF TEST	DESCRIPTION	METHOD/PROCESS
MOTO06_1_PIN_VEE_EP	LUBRICANT	Pin & Vee Extreme Pressure (EP) method	ASTM D2670
MOTO06_2_PIN_VEE_DES	LUBRICANT	Pin & Vee wear method	REPSOL INTERNAL METHOD
RYT001_4B_DESCASTE	LUBRICANT	4 balls wear method	ASTM D5183 Y ASTM D4172
RYT002_4B_EP	LUBRICANT	4 balls extreme pressure method	ASTM D2783
RYT003_AGUA_SED_DM	FUEL	Water and Sediments DM	ASTM D2709
RYT004_AGUA_SED_FO	FUEL	Water and Sediments FO	ASTM D1796
RYT005_ALMC_GO	FUEL	Dupont diesel storage	DUPONT METHOD
RYT006_ANTIHERRUMBRE	FUEL	Rust	ASTM D 665
RYT007_ASPECTO	FUEL	Appearance	ASTM D4176
RYT008_ATP_CELLULAR	FUEL	Cellular ATP	ASTM D7687
RYT009_AZUFRE_COR	LUBRICANT	Corrosive sulfur	EN-62535
RYT010_AZ_COR_ASTM	LUBRICANT	Corrosive sulfur	ASTM D1275B
RYT011_BLEND_EUROLAB	POLYMER	Polymer blending and chemical modification by Eurolab extruder	REPSOL INTERNAL METHOD
RYT013_BLEND_MINIEXT	POLYMER	Polymer blending and chemical modification by micro-extruder	REPSOL INTERNAL METHOD
RYT015_BRILLO	POLYMER	Brightness	REPSOL INTERNAL METHOD
RYT017_AMARILLEAMIENT	POLYMER	Adhesives characterization. Yellowing	REPSOL INTERNAL METHOD
RYT018_CIZALLA	POLYMER	Characterization of Adhesives. Shear test	REPSOL INTERNAL METHOD
RYT019_PEELE	POLYMER	Characterization of Adhesives. Peel test on different substrates	REPSOL INTERNAL METHOD
RYT020_ADHES_TACK	POLYMER	Characterization of Adhesives. Tack	REPSOL INTERNAL METHOD
RYT021_C_D2140	SPECIALITIES	Carbons	ASTM D2140
RYT022_COLOR_D1500	LUBRICANT	Colour	ASTM D1500
RYT029_CONDUCTIVIDAD	FUEL	Conductivity	ISO 6297
RYT031_CONTAM_TOTAL	FUEL	Total contamination	UNE EN 12662
RYT034_CRYSTEX_LATEP	POLYMER	Crystex. Determination of the soluble content (amorphous material) in a polyolefin	REPSOL INTERNAL METHOD
RYT035_DEFORM_REMANT	POLYMER	Remnant deformation under tension at constant elongation (EXT)	REPSOL INTERNAL METHOD
RYT036_DUR_ROCKWELL	POLYMER	Rockwell hardness	REPSOL INTERNAL METHOD
RYT037_DEF_Rem_TENSI	POLYMER	Remnant deformation due to tension, elongation and creep under constant load.	REPSOL INTERNAL METHOD
RYT038_DUREZA_SHORE	POLYMER	Shore hardness	REPSOL INTERNAL METHOD
RYT039_DEMUL_D1401	LUBRICANT	Demulsibility	ASTM D1401
RYT040_DEMUL_D2711	LUBRICANT	Demulsibility	ASTM D2711
RYT041_DENS_TEMP	FUEL	Density at temperature	ASTM D4052

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RYT042_DENSIDAD	GENERIC	Liquid sample density	ASTM D4052
RYT043_DENS_BAL_HIDR	GENERIC	Density: Hydrostatic Balance	REPSOL INTERNAL METHOD
RYT044_DENS_COL_GRAD	GENERIC	Density: Gradient Column	REPSOL INTERNAL METHOD
RYT045_DESAIREACION	LUBRICANT	De-aeration	ASTM D3427
RYT046_DESEMULSION	FUEL	De-emulsion	ASTM D1094
RYT047_DETERGENCIA	FUEL	HLPS detergency	REPSOL INTERNAL METHOD
RYT050_ESF_UHMWPE	POLYMER	Determination of elongation stress in UHMWPE	REPSOL INTERNAL METHOD
RYT051_GR_RETIC_POLI	POLYMER	Crosslinking degree of a polymer	REPSOL INTERNAL METHOD
RYT052_PM_UHMWNOGPC	POLYMER	Molecular weight of ultra-high molecular weight polyethylene not measurable by GPC	REPSOL INTERNAL METHOD
RYT053_SH_MOD_TRAC	POLYMER	Strain Hardening Modulus (Gp) by Traction (80 °C)	REPSOL INTERNAL METHOD
RYT054_DISPERSANCIA	LUBRICANT	Scattering	REPSOL INTERNAL METHOD
RYT056_DMA	POLYMER	DMA: Dynamo-mechanical properties	REPSOL INTERNAL METHOD
RYT059_EFIC_AUTORREP	POLYMER	Self-repair efficiency assessment	REPSOL INTERNAL METHOD
RYT060_ENSAYO_GEL	FUEL	Gel test	REPSOL INTERNAL METHOD
RYT061_ENVEJ_WOM	POLYMER	Aging in climatic chamber (WOM)	REPSOL INTERNAL METHOD
RYT062_ENVEJ_ESTUFA	POLYMER	Aging / Stove Cure	REPSOL INTERNAL METHOD
RYT063_ESCR	POLYMER	ESCR: Resistance to Stress Cracking	REPSOL INTERNAL METHOD
RYT064_ESPUMAS_AT_A	LUBRICANT	High temperature foam option A	ASTM D6082 (METHOD A)
RYT065_ESPUMAS_AT_IV	LUBRICANT	High temperature foams, Sec. IV	ASTM D6082
RYT068_RECHEM	FUEL	Rechem diesel foams	MRECHEM METHOD
RYT069_ESPUMAS_LUB	LUBRICANT	Foams Sec. I, II, III	ASTM D892
RYT070_ESPUMAS_OPCA	LUBRICANT	Foams Sec. I, II, III option A	ASTM D892 (METHOD A)
RYT071_INY_BOSCH	LUBRICANT	Shear Stability (Bosch Injector)	CEC L-14-93
RYT072_CIZ_KRL	LUBRICANT	Shear Stability (KRL)	CEC L-45-99
RYT073_ESTABIL_LUZ	FUEL	Light stability	REPSOL INTERNAL METHOD
RYT074_ESTABIL_ADITI	FUEL	Additive stability	REPSOL INTERNAL METHOD
RYT075_EST_D2274	FUEL	Stability	ASTM D2274
RYT077_EST_TERMICA	FUEL	Thermal stability	UOP 835 MODIFIED
RYT078_EST_UOP835	FUEL	UOP 835 stability	UOP 835
RYT079_FILM_RANDCAST	POLYMER	Cast-film extrusion (Randcastle) max 500 microns	REPSOL INTERNAL METHOD
RYT081_FBT	FUEL	FBT	IP387
RYT082_FBT_COLD_SOAK	FUEL	FBT Cold soak	IP387



REPSOL TECHNOLOGY LAB REFERENCE	TYPE OF TEST	DESCRIPTION	METHOD / PROCESS
RYT083_FBT_SEVERO	FUEL	Severe FBT	IP387 MODIFIED
RYT084_F_AGUA_AFNOR	LUBRICANT	Water filterability (AFNOR)	AFNOR NF E 48-690
RYT085_FILT_AGUA_ISO	LUBRICANT	Water filterability (ISO)	ISO 13357-1
RYT087_F_SECO_AFNOR	LUBRICANT	Dry filterability (AFNOR)	AFNOR NF E 48-691
RYT088_FILT_SECO_ISO	LUBRICANT	Dry filterability (ISO)	ISO 13357-2
RYT089_FNCT	POLYMER	FNCT: Resistance to SCG in PE Resins (t < 750 hours)	REPSOL INTERNAL METHOD
RYT090_F_ADHES.REACT	POLYMER	Adhesives formulation	REPSOL INTERNAL METHOD
RYT091_FRAC_PRE_COMP	POLYMER	Preparative Fractionation by Composition	REPSOL INTERNAL METHOD
RYT092_HFRR	LUBRICANT	Friction and wear HFRR	REPSOL INTERNAL METHOD
RYT096_GOMAS_D381	FUEL	Current rubbers	ASTM D381
RYT097_GOMAS_POTEN	FUEL	Potential rubbers	ASTM D873
RYT098_HDT_FLEXION	POLYMER	HDT: Bending Temperature Under Load	REPSOL INTERNAL METHOD
RYT100_INDICE_CETANO	FUEL	Cetane number	ASTM D4737
RYT101_IND_FLUIDEZ	POLYMER	Flow index	REPSOL INTERNAL METHOD
RYT102_IN_REFRACCION	SPECIALITIES	Refractive index ASTM D1747	ASTM D1747
RYT103_ISA	FUEL	Water separation index	ASTM D3948
RYT104_IND_VISC	LUBRICANT	Viscosity index	ASTM D2270
RYT105_INSOL_COLOR	FUEL	Insoluble in dyes	REPSOL (PEC 1091)
RYT109_HFRR_COMB	FUEL	HFRR Lubricity	CEC-F-06-A
RYT110_TMP_ABIER_ADH	POLYMER	Measurement of open time in adhesives	REPSOL INTERNAL METHOD
RYT112_MICROCOKING	LUBRICANT	Microcoking	GFC LU-27-A-13
RYT113_MICROPITTING	LUBRICANT	Micropitting	REPSOL INTERNAL METHOD
RYT114_MISCIBILIDAD	LUBRICANT	Miscibility and homogeneity	ASTM D6922
RYT115_MOLDEO PRENSA	POLYMER	Compression Molding (Press)	REPSOL INTERNAL METHOD
RYT116_MININJECTORA	POLYMER	Injection molding (mini-injector)	REPSOL INTERNAL METHOD
RYT117_MTM	LUBRICANT	MTM (Mini Traction Machine)	REPSOL INTERNAL METHOD
RYT118_NCD	FUEL	Derived cetane number	EN 15195
RYT119_OXIDACION_EP	LUBRICANT	Oxidation (EP oils)	ASTM D2893
RYT120_OX_1000H	LUBRICANT	Oxidation 1000 h	ASTM D431
RYT121_OX_CEC-48	LUBRICANT	CEC L-48-00 oxidation (equipment A or B) up to 0.25 L	CEC L-48-00
RYT122_OXID_DIELEC	LUBRICANT	Dielectric oxidation	UNE-EN 61125C
RYT123_OXID_D2440	LUBRICANT	Dielectric oxidation (American standard)	ASTM D2440
RYT124_OXID_IP48	LUBRICANT	IP48 oxidation	IP48

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RYT125_OXID_ISOT	LUBRICANT	ISOT oxidation (FED-WL 761)	JIS K 2514
RYT126_OXID_TFOUT	LUBRICANT	TFOUT oxidation	ASTM D4742
RYT127_TOST	LUBRICANT	TOST oxidation	ASTM D943
RYT128_OXID_USS	LUBRICANT	USS oxidation	US STEEL 224
RYT129_OX_VW_DKA	LUBRICANT	VW DKA oxidation	VW DKA PV 1443
RYT130_OXID_NITR_IR	LUBRICANT	Oxidation, nitration (IR)	DIN 51 453
RYT133_PCA_IP346	SPECIALITIES	PCA determination	IP346
RYT137_P_DIELEC_D924	LUBRICANT	Dielectric losses	ASTM D924
RYT138_P_INDUCCION	FUEL	Induction period	ASTM D525
RYT141_PETROOXY	FUEL	Petrooxy	ASTM D7545
RYT143_POFF	FUEL	POFF EN116	UNE-EN-116
RYT144_PV_D5191	FUEL	ASTM vapor pressure	ASTM D5191
RYT146_PROP_FLEXION	POLYMER	Bending Properties	REPSOL INTERNAL METHOD
RYT147_PROP_TRACCION	POLYMER	Traction Properties	REPSOL INTERNAL METHOD
RYT148-1_COLORIMETR	POLYMER	Optical properties (colorimetry / TGLV)	REPSOL INTERNAL METHOD
RYT148-1_OPT_TGLV			
RYT149_PTO_ANILINA	SPECIALITIES	Aniline Point	ASTM D611
RYT151_CRISTAL_AUTO	FUEL	Automatic crystallization point	ASTM D7153
RYT153_PTO_HUMO	FUEL	Smoke point	ASTM D-1322
RYT154_PTO_INFL_VA	LUBRICANT	Flash point v / a	ASTM D92
RYT155_PTO_INFL_VC	FUEL	Flash point v / c	ASTM D 93
RYT158_PTO_NIEBLA	FUEL	Fog point	ASTM D 5771/ D2500
RYT159_P_VERTIDO_D97	FUEL	Pour Point ASTM D97	ASTM D97
RYT160_VERTIDO_AUTOM	LUBRICANT	ASTM D5950 Automatic Pour Point	ASTM D5950
RYT161_RANCIMAT	FUEL	Rancimat UNE-EN 15751	UNE EN 15751
RYT164_REL_ESF_COMPR	POLYMER	Compression stress relaxation	REPSOL INTERNAL METHOD
RYT166-1_RL_DINÁMICA			Rheology (dynamic, rotational, capillary, EVF, fibers evaluation by Haul off). Ares dynamic rheometer that measures from
RYT166-2_RL_ROTACIÓN			-30 °C. local relaxations of polymer chain, material behavior under extreme temperature conditions. Large number of internal methods to indirectly measure, for example, the melt resistance, the activation energy of transitions, Dalquist criterion for the measurement of wettability of a material at a given temperature
RYT166-4_RL_EVF			
RYT166-6_RL_EA			
RYT166-7_RL_MSTR.CRV	POLYMER	Rheology (dynamic, rotational, capillary)	
RYT166-8_RL_DALQUISH			



REPSOL TECHNOLOGY LAB REFERENCE	TYPE OF TEST	DESCRIPTION	METHOD / PROCESS
RYT167_AGRIGET_OZONO	POLYMER	Ozone Cracking Resistance	REPSOL INTERNAL METHOD
RYT169_CHARPY	POLYMER	Charpy impact resistance	REPSOL INTERNAL METHOD
RYT170_IZOD	POLYMER	Izod impact resistance	REPSOL INTERNAL METHOD
RYT171_RPVOT	LUBRICANT	RPVOT (rotary pump oxidation)	ASTM D2272
RYT172_RPVOT_AMONIAC	LUBRICANT	RPVOT with ammonia	ASTM D2272
RYT173_RPVOT_MOD	LUBRICANT	Modified RPVOT	ASTM D2272
RYT176_SCAN_BROOKFIE	LUBRICANT	Scanning Brookfield	ASTM D5133
RYT179_TANG_DELTA	LUBRICANT	Tangent delta	UNE-EN 60247
RYT180_Reblanc_MET	POLYMER	Mettler Softening Temperature	REPSOL INTERNAL METHOD
RYT183_T_INTERFASICA	LUBRICANT	Interphase voltage	ASTM D1331/UNE 21320-6
RYT184 RUPTURA_D877	LUBRICANT	Breakdown voltage 60 Hz: Disc electrodes	ASTM D877
RYT185_RUPTURA_60156	LUBRICANT	Dielectric breakdown voltage	UNE EN 60156
RYT186_TEOST_33C	LUBRICANT	TEOST 33C (deposit test)	ASTM D6335
RYT187_TEOST_MHT	LUBRICANT	TEOST MHT-4 (deposit test)	ASTM D7097
RYT192_TREF_CRYSTAF	POLYMER	TREF / Crystaf. inter and intra-molecular comonomer distribution in polyolefin	REPSOL INTERNAL METHOD
RYT193_VICAT	POLYMER	VICAT: VICAT Softening Temperature	REPSOL INTERNAL METHOD
RYT195_VISC_100	LUBRICANT	Viscosity at 100°C	ASTM D445
RYT196_VISC_20	LUBRICANT	Viscosity at 20°C	ASTM D445
RYT198_VISC_40	LUBRICANT	Viscosity at 40°C	ASTM D445
RYT215_VISC_50	LUBRICANT	Viscosity at 50°C	ASTM D445
RYT201_VISC_BROOK_AT	BITUMEN	Brookfield Viscosity (High Temperature)	UNE 13302
RYT202_BROOKFIELD_BT	LUBRICANT	Brookfield Viscosity (low temperature)	ASTM D2983
RYT203-1_VISC_BROOKFIELD	GENERIC	Brookfield Manual Viscosity	REPSOL INTERNAL METHOD
RYT203-2_VISC_HAAKE	GENERIC	Haake Manual Viscosity	DIN 53019
RYT203-3_VISC_Ubbelohde	GENERIC	Ubbelohde / Ostwald viscosity and manual kinematic viscosity at any T	REPSOL INTERNAL METHOD
RYT204_CCS	LUBRICANT	Viscosity CCS (Cold Cranking Simulator)	ASTM D5293
RYT205_VISC_40_100	LUBRICANT	Kinematic viscosity at 40 and 100°C (automatic equipment)	ASTM D445
RYT206_VISC_CINEM_BT	LUBRICANT	Kinematic viscosity at low temperature (0 to -40°C) (manual equipment)	ASTM D445
RYT209_VISC_HTHS	LUBRICANT	Viscosity HTHS (High Temperature High Shear)	CEC-L-36-90
RYT210_VISC_MRIV	LUBRICANT	MRV Viscosity (Mini Rotary)	ASTM D4684
RYT212_VOL_NOACK	LUBRICANT	Noack volatility	CEC-L-40-93
RYT213_LAMINOCULTIVO	FUEL	Lamino-cultivation microorganisms	LAMINOCULTIVES
RYT215_VISC_50	LUBRICANT	Viscosity at 50°C	ASTM D445
RYT216_VISC_70	LUBRICANT	Viscosity at 70°C	ASTM D445
RYT217_CURV_VISC_5T	LUBRICANT	Brookfield Viscosity Curve	REPSOL INTERNAL METHOD
RYT218_CP_PRESION	LUBRICANT	Heat Capacity (DSC) with Pressure in Mettler DSC	REPSOL INTERNAL METHOD

REPSOL TECHNOLOGY LAB REFERENCE	TYPE OF TEST	DESCRIPTION	METHOD / PROCESS
RYT220_P_INDUC_PDSC	LUBRICANT	Determination of oxidation induction time by differential scanning calorimetry at pressure	REPSOL INTERNAL METHOD
RYT221_BLEND_HAAKE	POLYMER	Polymer blending and HAAKE internal chamber chemical modification	REPSOL INTERNAL METHOD
RYT222_CORR CU_D130	LUBRICANT	Corrosion on Cu Sheet	ASTM D130
RYT223_FORMULA05L	FORMULATION	Lubricant Formulation, fuel and fuel oils up to 0.5 L	REPSOL INTERNAL METHOD
RYT224_FORMULA5L	FORMULATION	Lubricant Formulation, fuel and fuel oils up to 5 L	REPSOL INTERNAL METHOD
RYT225_FORMULA25L	FORMULATION	Lubricant Formulation, fuel and fuel oils up to 25 L	REPSOL INTERNAL METHOD
RYT226_FORMULA100L	FORMULATION	Lubricant Formulation, fuel and fuel oils up to 100 L	REPSOL INTERNAL METHOD
RYT227_FORMULA5000L	FORMULATION	Fuel Formulation up to 5000 L	REPSOL INTERNAL METHOD
RYT228_IMPRE3D_FDM	POLYMER	3D printing by FDM	REPSOL INTERNAL METHOD
RYT229_IMPRES3D_SLS	POLYMER	3D printing by SLS	REPSOL INTERNAL METHOD
RYT230_MOLIENDA	POLYMER	Grinding of polymer and polymeric compounds by milling Resch ZM100 and SM200	REPSOL INTERNAL METHOD
RYT231_DISEÑO 3D	POLYMER	Design for 3D printing by Autocad	REPSOL INTERNAL METHOD
RYT232_FLUENCIA	POLYMER	Study of the creep of a varnish	REPSOL INTERNAL METHOD
RYT233_PURIF_EST_VAC	GENERIC	Vacuum oven purification	REPSOL INTERNAL METHOD
RYT237_DISP_DISPERMT	GENERIC	Dispersion in Dispermat	REPSOL INTERNAL METHOD
RYT238_FILTRADO	GENERIC	Filtered out	REPSOL INTERNAL METHOD
RYT239_TAMIZADO	GENERIC	Sieving	REPSOL INTERNAL METHOD
RYT241_CAST_FILM_MINIEXT	POLYMER	Preparation of cast film by micro-extruder	REPSOL INTERNAL METHOD
RYT242_EST_PIROLITIC	POLYMER	Pyrolytic stove	REPSOL INTERNAL METHOD
RYT243_ROTAVAPOR	GENERIC	Rota-evaporation	REPSOL INTERNAL METHOD
RYT244_DENSIDAD_60	GENERIC	Liquid samples density at 60 °C	REPSOL INTERNAL METHOD
RYT245_ENSAYO_MANCHA	MARINE FUEL OIL	Determination of compatibility in fuels by spot test	AASHTO T 102-83
RYT246 FORMULA.LUB 1000L	FORMULATION	Lubricant Formulation up to 1000 L	REPSOL INTERNAL METHOD
RYT247_MICROINJECTORA	POLYMER	Injection molding (mini-injector) automatic equipment	REPSOL INTERNAL METHOD
RYT248_OX_3L	LUBRICANT	CEC L-48-00 oxidation (equipment A or B) up to 0.25 L	CEC L 48-00
RYT249TAB	BITUMEN	Ring-ball softening temperature	EN-1427
RYT250OPEN	BITUMEN	Determination of Needle Penetration in Bitumen	EN-1426
CRO001_MGS_BX	CHROMATOGRAPHY	Determination of saturated mono-glyceride in biodiesel present in diesel (BX)	REPSOL INTERNAL METHOD



REPSOL TECHNOLOGY LAB REFERENCE	TYPE OF TEST	DESCRIPTION	METHOD / PROCESS
CRO003_COLAS_POLIOL	CHROMATOGRAPHY	Calculation of high molecular weight tails in polyols	REPSOL INTERNAL METHOD
CRO004_IDE_COMP_HPLC	CHROMATOGRAPHY	Analysis by Liquid Chromatography	REPSOL INTERNAL METHOD
CRO005_PIONA_DES_LIG	CHROMATOGRAPHY	Semi-quantitative PIONA analysis in light distillates by GC-MS (quadrupole)	REPSOL INTERNAL METHOD
CRO006_PIONA_DES_MED	CHROMATOGRAPHY	Semi-quantitative PIONA analysis in middle distillates by GC x GC	REPSOL INTERNAL METHOD
CRO007_SAR_HPLC2	CHROMATOGRAPHY	SAR analysis in heavy fractions (vacuum residues) by HPLC	REPSOL INTERNAL METHOD
CRO008_SIM_HT_7169	CHROMATOGRAPHY	CG Simdist. Crude TBP curve	HP 7890
CRO009_ESPECIA_N_NAF	CHROMATOGRAPHY	Speciation of nitrogenous compounds in light distillates	REPSOL INTERNAL METHOD
CRO010_REFORMULYZER	CHROMATOGRAPHY	CG-Reformulyzer	REPSOL INTERNAL METHOD
CRO011_DET_GAS_REF	CHROMATOGRAPHY	CG-RGA-Refinery Gases	VARIAN+HP
CRO012_PAR_MOLECULAR	CHROMATOGRAPHY	Molecular parameters by GPC. Polyols, RV, Additives and Polymer	REPSOL INTERNAL METHOD
CRO013_MOL_PREP	CHROMATOGRAPHY	Preparative Size Exclusion Chromatography (GPC)	REPSOL INTERNAL METHOD
CRO014_GCFID_OPSM	CHROMATOGRAPHY	Chromatography for gases (GC) OPSM products	REPSOL INTERNAL METHOD
CRO015_HSGC_VOL_POLI	CHROMATOGRAPHY	Chromatography of Volatile Headspace Gases (HS-GC) in Polyols	REPSOL INTERNAL METHOD
CRO017_EFITEC_GNA	CHROMATOGRAPHY	Quantification of the EFITEC additive package in gasoline by GC-MS	REPSOL INTERNAL METHOD
CRO019_AROM_GO	CHROMATOGRAPHY	Determination of aromatics in middle distillates by HPLC	REPSOL INTERNAL METHOD
CRO020_BIOMARC_CRUDO	CHROMATOGRAPHY	Determination of biomarkers by GC-MS	REPSOL INTERNAL METHOD
CRO021_BTEX_DEST_LIG	CHROMATOGRAPHY	Determination of BTX in light distillates by GC-FID	REPSOL INTERNAL METHOD
CRO024_DM_GO	CHROMATOGRAPHY	Determination of metal deactivator in diesel or additive packages	REPSOL INTERNAL METHOD
CRO025_PESADOS_GNA	CHROMATOGRAPHY	Quantification of heavy components in gasoline by GC-FID	REPSOL INTERNAL METHOD
CRO026_SG_FAME	CHROMATOGRAPHY	Determination of sterol glycosides in FAME by GC-FID	REPSOL INTERNAL METHOD
CRO027_OXIGENADOS	CHROMATOGRAPHY	Determination of ETBE, TAME, TAEE, ETHANOL and TBA in refinery streams by GC-FID	REPSOL INTERNAL METHOD
CRO028_FAME_14103	CHROMATOGRAPHY	Determination of FAME in biodiesel by GC-FID	EN-14103
CRO029_FAME_GO-BD	CHROMATOGRAPHY	Determination of FAME in diesel-biodiesel blends	EN-14331
CRO030_FAME_QUEROSEN	CHROMATOGRAPHY	Determination of FAME in kerosene by GC-MS	IP-585
CRO031_HPLC_OPSM	CHROMATOGRAPHY	Quantification of OPSM plant products (MBA, ACP, benzoic acid, benzene, styrene, EB, EBHP, Phenol and Toluene) by HPLC	REPSOL INTERNAL METHOD
CRO032_VOLAT_VDA_278	CHROMATOGRAPHY	Determination of volatile organic compounds in Polymer according to VDA-278 by DT-GC-MS	VDA-278
CRO033_METOL_BIODIES	CHROMATOGRAPHY	Determination of methanol in biodiesel by headspace-GC-FID	EN-14110
CRO034_GLICERI_14105	CHROMATOGRAPHY	Determination of mono-, di- and triglycerides in biodiesel by GC-FID	EN-14105

REPSOL TECHNOLOGY LAB REFERENCE	TYPE OF TEST	DESCRIPTION	METHOD / PROCESS
CRO035_VERTIDOS	CHROMATOGRAPHY	Forensic analysis of hydrocarbon spills	REPSOL INTERNAL METHOD
CRO036_PAR_HC_C8-C40	CHROMATOGRAPHY	Determination of n-paraffin (C10-C40) in hydrocarbons by GC-FID	REPSOL INTERNAL METHOD
CRO039_TRAZ_FAME_GO	CHROMATOGRAPHY	Determination of traces of FAME in middle distillates by GC x GC	REPSOL INTERNAL METHOD
CRO040_VOLAT_POLIMER	CHROMATOGRAPHY	Determination of volatile compounds by Thermal Desorption-GC-MS	REPSOL INTERNAL METHOD
CRO041_MGS_FAME	CHROMATOGRAPHY	Quantification of saturated mono-glyceride in FAME by GC-FID	REPSOL INTERNAL METHOD
CRO043_DHA_LIG_CRUD	CHROMATOGRAPHY	DHA. Crude Oil TBP curve	HP 7890
CRO046_AZUFRADOS_NAF	CHROMATOGRAPHY	Speciation of sulfur compounds in light distillates	REPSOL INTERNAL METHOD
CRO047_ESPECIAC_S_GO	CHROMATOGRAPHY	Speciation of sulfur compounds in middle distillates by GC x GC-SCD	REPSOL INTERNAL METHOD
CRO048_METANOL_AGUA	CHROMATOGRAPHY	Quantification of methanol in water by GC-FID	REPSOL INTERNAL METHOD
CRO049_ESPECIAC_N_GO	CHROMATOGRAPHY	Speciation of nitrogen compounds in middle distillates by GC x GC-NCD	REPSOL INTERNAL METHOD
CRO050_IDEN_COM_GCMS	CHROMATOGRAPHY	Component identification by GC-MS	REPSOL INTERNAL METHOD
CRO055_FURFURAL_BASE	CHROMATOGRAPHY	Quantification of furfural on lubricant bases by HPLC	REPSOL INTERNAL METHOD
CRO056_GNA_GO	CHROMATOGRAPHY	Determination of gasoline in diesel by GC	REPSOL INTERNAL METHOD
CRO058_IDE_COMP_DTGC	CHROMATOGRAPHY	Determination of volatile compounds by thermal desorption and GC-MS	REPSOL INTERNAL METHOD
CRO061_AC_GRAS_MET	CHROMATOGRAPHY	Distribution of methylated fatty acids by GC	REPSOL INTERNAL METHOD
CRO063_AMINAS_LPG	CHROMATOGRAPHY	Determination of amines in LPG (Petroleum Liquid Gas) by GC-NCD	REPSOL INTERNAL METHOD
CRO064_ANTIOX_PE_PP	CHROMATOGRAPHY	Determination of antioxidants in polyolefin by HPLC	REPSOL INTERNAL METHOD
CRO070_RESI_LPG	CHROMATOGRAPHY	Qualitative or quantitative analysis of LPG (Petroleum Liquid Gas) residues by GC-FID	REPSOL INTERNAL METHOD
CRO072 CUANT_RES_LPG	CHROMATOGRAPHY	Quantification of LPG (Petroleum Liquid Gas) residues by GC-FID	REPSOL INTERNAL METHOD
CRO076_MOSHMOAHGCXGC	CHROMATOGRAPHY	Qualitative analysis MOSH-MOAH in polymer	REPSOL INTERNAL METHOD
CRO077_HCHO_POLIOL	CHROMATOGRAPHY	Quantification of Formaldehyde in Polyols	REPSOL INTERNAL METHOD
CR078_1_ASTM2887	CHROMATOGRAPHY	Simulated Distillation	ASTM D2887
CRO082_PIONA VGO	CHROMATOGRAPHY	PIONA (multidimensional gas chromatography) in VGO (Vacuum Gas Oil)	REPSOL INTERNAL METHOD
CRO083_SUST_BIO_GCMS	CHROMATOGRAPHY	Analysis of EBA functionalization substrates by GC-MS	REPSOL INTERNAL METHOD
CRO085_COMP_GNA_COMP	CHROMATOGRAPHY	Determination of components in competition gasoline.	ASTM D6730-01
CRO086_DILUC_GNA	CHROMATOGRAPHY	Gasoline dilution in lubricant oil by GC-FID	ASTM-04(2016)
CRO089_PM_SCB_GPC-IR	CHROMATOGRAPHY	Molecular Weight Distribution, molecular parameters and SCB (Short Chain Branch) in High Temperature GPC-IR Equipment	REPSOL INTERNAL METHOD
DES003_DEST_D86	DISTILLATION	Distillation	ASTM D86



REPSOL TECHNOLOGY LAB REFERENCE	TYPE OF TEST	DESCRIPTION	METHOD / PROCESS
PVT001_2_RAMP_DENVIS	PVT	Density and Kinematic Viscosity and Converted Dynamic Viscosity in small Samples. Temperature ramp.	ASTM D7042
PVT002_1_AWAI_WAX	OIL RESERVOIR	Live Oil Wax Appearance Temperature AT High Pressure	REPSOL INTERNAL METHOD
PVT002_2_AWAI_AOP	OIL RESERVOIR	Asphaltene Onset High Pressure	REPSOL INTERNAL METHOD
PVT003_HYDRATE	OIL RESERVOIR	Hydrate Cell Tests	REPSOL INTERNAL METHOD
PVT004_1_YS_ATM	OIL RESERVOIR	Yield Stress of crude oil at atmospheric pressure	REPSOL INTERNAL METHOD
PVT004_2_YS_HP	OIL RESERVOIR	Yield Stress of crude oil at high pressure	REPSOL INTERNAL METHOD
PVT004_3_CAR_REO	OIL RESERVOIR	Fluid Rheology (Temperature/Shear Sweep)	REPSOL INTERNAL METHOD
PVT004_4_CAR_REO_HP	OIL RESERVOIR	High Pressure Rheology with Live Oil	REPSOL INTERNAL METHOD
PVT004_5_GOMAS	OIL RESERVOIR	Determination of gel in FA additive	REPSOL INTERNAL METHOD
PVT005_RECOMBINATION	PVT	Surface sample recombination	REPSOL INTERNAL METHOD
PVT005_2_QCHEK_RECOMB	PVT	Quality check of recombined fluid	REPSOL INTERNAL METHOD
PVT006_HIGHRESOL_GC	CHROMATOGRAPHY	Liquid High Resolution GC fingerprint (whole oil / extracts)	REPSOL INTERNAL METHOD
PVT007_1_GASES_RGA	CHROMATOGRAPHY	Gas GC characterization (isotubes/isojars)	REPSOL INTERNAL METHOD
PVT007_2_GASES_C11	CHROMATOGRAPHY	Flashed gas composition C11+	REPSOL INTERNAL METHOD
PVT007_4_GASES_C11BTEX	CHROMATOGRAPHY	Flashed gas composition C11+ BTEX	REPSOL INTERNAL METHOD
PVT007_3_LIQ_C35	CHROMATOGRAPHY	Composition of liquid C36+	REPSOL INTERNAL METHOD
PVT007_5_LIQ_C35BTEX	CHROMATOGRAPHY	Flashed liquid composition to C36+	REPSOL INTERNAL METHOD
PVT008_VISCO_HP_GAS	OIL RESERVOIR	High Pressure Viscosity for Gas or Oil Sample	REPSOL INTERNAL METHOD
PVT009_PESO_MOL	PVT	Molecular weight by cooling of Temperature	REPSOL INTERNAL METHOD
PVT010_1_PVT_CVD	PVT	Gas Condensate Constant Volume Depletion	REPSOL INTERNAL METHOD
PVT010_2_PVT_SF	PVT	Single Flash (GOR, API)	REPSOL INTERNAL METHOD
PVT010_3_PVT_CCE	PVT	Black Oil Constant Composition Expansion	REPSOL INTERNAL METHOD
PVT010_4_PVT_MST	PVT	Multi-Separation Test (MST)	REPSOL INTERNAL METHOD
PVT010_5_PVT_DL	PVT	Black Oil Differential Liberation	REPSOL INTERNAL METHOD
PVT010_6_PVT_CMD	PVT	Gas Condensate Constant Composition Expansion	REPSOL INTERNAL METHOD
PVT010_7_PVTSWELLING	PVT	Swelling Test	REPSOL INTERNAL METHOD
PVT010_8_PVT_SATSTEP	PVT	Determination of saturation pressure in Step Sample	REPSOL INTERNAL METHOD
PVT010_9_PVT_WELLSTR	PVT	Calculation of well stream composition	REPSOL INTERNAL METHOD

REPSOL TECHNOLOGY LAB REFERENCE	TYPE OF TEST	DESCRIPTION	METHOD / PROCESS
PVT011_SAR	GEOCHEMISTRY	SAR Analysis (saturated, aromatic and resin/ polar)	REPSOL INTERNAL METHOD
PVT012_DSL	OIL RESERVOIR	Scale Flow Loop Test (Tube Blocking Test)	REPSOL INTERNAL METHOD
PVT014_OPENING	PVT	Opening Pressure of PVT bottles	REPSOL INTERNAL METHOD
PVT015_SF_RESTOR	PVT	Single phase samples restoration	REPSOL INTERNAL METHOD
PVT016_MF_RESTOR	PVT	Multiphase samples restoration	REPSOL INTERNAL METHOD
PVT017_MTBP_300CC	DISTILLATION	STO Micro-distillation 5 cuts similar ASTM D-2892 with 300 cc	REPSOL INTERNAL METHOD
PVT018_MTBP_50CC	DISTILLATION	STO Micro-distillation 3 cuts similar ASTM D-2892 with 50 cc	REPSOL INTERNAL METHOD
PVT019_AGUA_SINTET	OIL RESERVOIR	Synthetic water formulation	REPSOL INTERNAL METHOD
PVT020_DENS_HP	PVT	High pressure density	REPSOL INTERNAL METHOD
PVT022_SOLUBILITY	OIL RESERVOIR	Dispensability/Solubility water with Crude oil or hydrocarbon With Crude oil	REPSOL INTERNAL METHOD
PVT023_BSW_CENTRI	PVT	BS&W by Centrifuge	REPSOL INTERNAL METHOD
PVT024_BSW_KF	PVT	BS&W By Karl Fisher	ASTM D4377
PVT025_COLDFINGER	OIL RESERVOIR	Cold Finger	REPSOL INTERNAL METHOD
PVT026_COLFINGERHP	OIL RESERVOIR	High Pressure Cold Finger	REPSOL INTERNAL METHOD
PVT028_TRANSFER	PVT	Sample transfer PVT Bottle	REPSOL INTERNAL METHOD
PVT029_STO_DEHY	DISTILLATION	STO Dehydration	REPSOL INTERNAL METHOD
PVT030_OBM_STO	PVT	OBM Contamination Content	REPSOL INTERNAL METHOD
PVT031_ESTAB_CINET	PVT	Kinetics Stability of samples	REPSOL INTERNAL METHOD
PVT032_ESTAB_INDEX	PVT	Index Stability of samples	ASTM D7061
PVT033_PWATCH	PVT	Multiface pipe determination	REPSOL INTERNAL METHOD



REPSOL TECHNOLOGY LAB REFERENCE	TYPE OF TEST	DESCRIPTION	METHOD / PROCESS
RC001_PLUG_ADQ	CORE_ANALYSIS	Plug Sample Acquisition	INTERNAL METHOD
RC002_PLUG_PREP	CORE_ANALYSIS	Plug trimming, bagging and labelling	INTERNAL METHOD
RC003_SAMPLE_SOXH	CORE_ANALYSIS	Sample Cleaning and Fluid Extraction by Soxhlet	INTERNAL METHOD
RC004_DEAN_STARK	CORE_ANALYSIS	Fluid Extraction by Dean Stark	INTERNAL METHOD
RC005_ION_MILLING	CORE_ANALYSIS	Sample Ion Milling	INTERNAL METHOD
RC007_SAMPLE_SATU	CORE_ANALYSIS	Sample Saturation	INTERNAL METHOD
RC010_CONFOCAL_STUD	MICROSCOPÍA	Confocal Microscopy Study	INTERNAL METHOD
RC011_FLUID_PETROGRA	CORE_ANALYSIS	Fluid Inclusions Petrography	INTERNAL METHOD
RC012_FLUID_MICROTHER	CORE_ANALYSIS	Fluid Inclusions Microthermometry	INTERNAL METHOD
RC013_FLUID_INCLUS	CORE_ANALYSIS	Fluid Inclusions UV Fluorescence Spectrometry	INTERNAL METHOD
RC014_CORE_FTIR_LOG	CORE_ANALYSIS	Full Core High Resolution Qualitative Composition FTIR Log	INTERNAL METHOD
RC017_SEM_EDS	CORE_ANALYSIS	FAST SEM-EDS (Scanning Electron Microscopy and Energy Dispersive X-Ray Spectroscopy)	INTERNAL METHOD
RC019_DATA_CLUSTER	CORE_ANALYSIS	Subsurface and Laboratory Data Clustering Analysis and pseudoproperties estimation (per sample)	INTERNAL METHOD
RC020_THS_STUDY	CORE_ANALYSIS	Thin Section Cathodoluminescence Petrographical Study	INTERNAL METHOD
RC021_THS_PETRO_DESC	CORE_ANALYSIS	Thin Section Petrographical Description	INTERNAL METHOD
RC022_THS_POINT_COUN	CORE_ANALYSIS	Thin Section Petrography by Point Counting	INTERNAL METHOD
RC023_THS_SCAN	CORE_ANALYSIS	Thin Section Scanning	INTERNAL METHOD
RC024_BRAZILIAN_TEST	ROCK_MECHANICS	Brazilian Test or Indirect Tension Test	INTERNAL METHOD
RC025_CORE_HR_VP-VS	ROCK_MECHANICS	Full Core High Resolution Elastic Velocities (Vp-Vs) Log (per meter)	INTERNAL METHOD
RC026_CORE_HR_YOUNG	ROCK_MECHANICS	Full Core High Resolution Reduced Young Modulus Log (per meter)	INTERNAL METHOD
RC027_CORE_HR_UCS	ROCK_MECHANICS	High Resolution Strength (UCS) Log (per meter)	INTERNAL METHOD
RC028_HYD_COMP_TEST	ROCK_MECHANICS	Hydrostatic Compression Test	INTERNAL METHOD
RC029_ME_TRIAX_TEST	ROCK_MECHANICS	Multistage Triaxial Test	INTERNAL METHOD
RC030_TRIAXIAL_TEST	ROCK_MECHANICS	Triaxial Test_LVDT	INTERNAL METHOD
RC031_UCS_TEST	ROCK_MECHANICS	Unconfined Compressive Strength (UCS) Test_LVDT	INTERNAL METHOD
RC032_ULTRASONIC_PRO	ROCK_MECHANICS	Ultrasonic Velocities and Dynamic Elastic Properties	INTERNAL METHOD
RC033_1D_NMR_PROF	CORE_ANALYSIS	1D Saturation Profile by Nuclear Magnetic Resonance	INTERNAL METHOD
RC034_CAP_CURV_PPLAT	CORE_ANALYSIS	Capillary Pressure Curve Measurement by Porous Plate	INTERNAL METHOD
RC035_CAP_CURV_CENTR	CORE_ANALYSIS	Capillary Pressure Curve Measurement by Ultracentrifuge	INTERNAL METHOD

REPSOL TECHNOLOGY LAB REFERENCE	TYPE OF TEST	DESCRIPTION	METHOD / PROCESS
RC036_SAT_EST_NMR_T2	CORE_ANALYSIS	Dual Saturation State by Nuclear Magnetic Resonance (T2-cutoff)	INTERNAL METHOD
RC037_SATEST_NMR_T2	CORE_ANALYSIS	Dual Saturation State by Nuclear Magnetic Resonance (T2-cutoff) at High Pressure and Temperature	INTERNAL METHOD
RC038_FRF_AMBIENT	CORE_ANALYSIS	Formation Factor (FRF) at Ambient Conditions	INTERNAL METHOD
RC039_FRF_HPT	CORE_ANALYSIS	Formation Factor (FRF) at High Pressure and Temperature	INTERNAL METHOD
RC040_FC_HR_MPERM	CORE_ANALYSIS	Full Core High Resolution Permeability Log (Miniperm) (per meter)	INTERNAL METHOD
RC041_FC_PERMEABILIT	CORE_ANALYSIS	Permeability Measurement in Full Core Sample	INTERNAL METHOD
RC042_POR_PERM	CORE_ANALYSIS	Porosity and Permeability Measurement	INTERNAL METHOD
RC043_POR_PERM_NOP	CORE_ANALYSIS	Porosity and Permeability Measurement at Net Overburden Pressure (NOP)_5 pressure points	INTERNAL METHOD
RC044_POROSITY_NMR	CORE_ANALYSIS	Porosity and Pore Size Distribution Curve by Nuclear Magnetic Resonance (T1-T2)	INTERNAL METHOD
RC045_PORO_NMR_HPT	CORE_ANALYSIS	Porosity and Pore Size Distribution Curve by Nuclear Magnetic Resonance (T1-T2) at High Pressure and Temperature	INTERNAL METHOD
RC046_RESIST_IND_HPT	CORE_ANALYSIS	Resistivity Index by Porous Plate at High Pressure and Temperature	INTERNAL METHOD
RC047IRR_WAT_CENT	CORE_ANALYSIS	Sample Conditioning to Irreducible Water Saturation State by Ultracentrifuge	INTERNAL METHOD
RC048_WETT_AMMOT	CORE_ANALYSIS	Wettability Indexes Measurement by Ammot-USBM Method	INTERNAL METHOD
RC049_WETT_USBM	CORE_ANALYSIS	Wettability Indexes Measurement by Ultracentrifuge (USBM Standard)	INTERNAL METHOD
RC050_2D_IMAG-PROC	CORE_ANALYSIS	2D Image Processing and Morphometric Analysis	INTERNAL METHOD
RC051_2D_NANO_FIB_SE	CORE_ANALYSIS	2D Nanoscale Image Mapping by FIB-SEM (1000-3500 Megapixels)	INTERNAL METHOD
RC052_3D_IMAG-PROC	CORE_ANALYSIS	3D Image Processing and Morphometric Analysis	INTERNAL METHOD
RC053_3D_NANO_FIB_SE	CORE_ANALYSIS	3D Nanoscale Image Acquisition by FIB-SEM	INTERNAL METHOD
RC054_HR_MICRO_CT	CORE_ANALYSIS	High resolution X-Ray Micro Computed Tomography (HR Micro CT)	INTERNAL METHOD
RC055_MICROCT_WUTEST	CORE_ANALYSIS	High resolution X-Ray Micro Computed Tomography (HR Micro CT) while Uniaxial Testing	INTERNAL METHOD
RC056_QEMSCAN_MAPPIN	CORE_ANALYSIS	Reservoir Properties Digital Simulation	INTERNAL METHOD
RC057_RESERV_DIG_SIM	CORE_ANALYSIS	Scanning Acoustic Microscopy (SAM)	INTERNAL METHOD
RC058_SAM	CORE_ANALYSIS	X-Ray Micro Radiography Screening (2D)	INTERNAL METHOD
RC059_XR_MCT_SCR_2D	CORE_ANALYSIS	X-Ray Micro Computed Tomography (Micro CT)	INTERNAL METHOD
RC060_XR_MICRO_CT	CORE_ANALYSIS	Dual Saturation State by Nuclear Magnetic Resonance (T2-cutoff)	INTERNAL METHOD



REPSOL TECHNOLOGY LAB REFERENCE	TYPE OF TEST	DESCRIPTION	METHOD / PROCESS
RC079_CONT_ANGLE	CORE_ANALYSIS	Static/Dynamic Contact Angle Measurement AMB COND	INTERNAL METHOD
RC080_FREE_ENERGY	CORE_ANALYSIS	Surface Free Energy Determination by Contac Angle AMB COND	INTERNAL METHOD
RC081_CORE_AGING	CORE_ANALYSIS	Wettability Restoration (Core Aging)	INTERNAL METHOD
RC082_ADHES_CONTANGL	CORE_ANALYSIS	Work of Adhesion Measurement by Contact Angle AMB COND	INTERNAL METHOD
RC083_QEM_MAP_TS_30M	CORE_ANALYSIS	MINERAL QEMSCAN MAPPING THIN SECTIONS 30 MICRON RESOLUTION (1cm2)	INTERNAL METHOD
RC084_QEM_MAP_TS_10M	CORE_ANALYSIS	MINERAL QEMSCAN MAPPING THIN SECTIONS 10 MICRON RESOLUTION (1cm2)	INTERNAL METHOD
RC085_ABS_BRINE_PERM	CORE_ANALYSIS	Absolute brine permeability	INTERNAL METHOD
RC086_REL_PERMEABILI	CORE_ANALYSIS	Relative permeability (Unsteady-state) (water-oil and oil-water)	INTERNAL METHOD
RC087_CORE_FLOODING	CORE_ANALYSIS	Core Flooding	INTERNAL METHOD
RC089_CT_SCAN_TOMOGR	CORE_ANALYSIS	CT SCAN (X RAY COMPUTED TOMOGRAPHY)	INTERNAL METHOD
RC090_XR_MCT_MULTI_2D	CORE_ANALYSIS	X-Ray Micro Radiography Screening Multi Energy (2D)	INTERNAL METHOD
MIC001_DRX_FCRISTALI	MICROSCOPY	Crystalline phases analysis in the sample by X-Ray Diffraction.	INTERNAL METHOD
MIC002_DRX_CAPILAR_S	MICROSCOPY	Analysis of air and humidity sensitive samples in capillary by X-Ray Diffraction.	INTERNAL METHOD
MIC004_DRX_RIETVELD	MICROSCOPY	Semiquantitative analysis of crystalline phases by X-Ray Diffraction (Rietveld)	INTERNAL METHOD
MIC005_SEM_EDS_MULTIP	MICROSCOPY	Semiquantitative analysis of a conventional sample bySEM-EDS (multipoint)	INTERNAL METHOD
MIC009_ANA_IMAG	MICROSCOPY	Size and morphology determination of particles by image analysis	INTERNAL METHOD
MIC011_DRX_CAPILAR_N	MICROSCOPY	X-Ray Diffraction in standard capillary	INTERNAL METHOD
MIC012_DRX_OPREFEREN	MICROSCOPY	X Ray Diffraction in special samples with preferred orientation in sample holders with lateral load	INTERNAL METHOD
MIC013_MO_REFLEXION	MICROSCOPY	Conventional sample study by reflected light microscopy	INTERNAL METHOD
MIC014_MO_TRANSMISIO	MICROSCOPY	Conventional sample study by transmission light Microscopy.	INTERNAL METHOD
MIC015_3D_PERFILOMET	MICROSCOPY	3D confocal microscopy (profilometry)	INTERNAL METHOD
MIC016_CLSM	MICROSCOPY	Non defining method of Laser Scanning Confocal Microscopy	INTERNAL METHOD
MIC017_SEM_MAPPINGCO	MICROSCOPY	Mapping of elemental distribution with sample preparation	INTERNAL METHOD
MIC018_SEM_MAPPSINPR	MICROSCOPY	Mapping of elemental distribution without sample preparation	INTERNAL METHOD
MIC021_SEM_COM_PREP	MICROSCOPY	Sample observation by conventional scanning electron Microscopy (SEM), with sample preparation	INTERNAL METHOD
MIC023_SEM_CATODO	MICROSCOPY	Cathodoluminescence images by SEM	INTERNAL METHOD

REPSOL TECHNOLOGY LAB REFERENCE	TYPE OF TEST	DESCRIPTION	METHOD / PROCESS
MIC024_SEM_CAT_CPREP	MICROSCOPY	Cathodoluminescence images by SEM with sample preparation.	INTERNAL METHOD
MIC025_DRX_ARCILLAS	MICROSCOPY	Clay identification by XRD	INTERNAL METHOD
MIC028_CELDA UNIDAD ZEOLITAS	MICROSCOPY	Unit Cell parameter CAT. FCC	INTERNAL METHOD
CAT001_VOL_PORO_N2	CATALYSIS	Nitrogen adsorption-desorption Isotherm	INTERNAL METHOD
"CAT002-1_BET CAT002-2_Area_ZE_MAT"	CATALYSIS	BET Surface Area	INTERNAL METHOD
"CAT003-1_TT_HUM_110 CAT003-2 IGN_1000_1H CAT003-3 IGN_480_1H CAT003-4 IGN_CATFCC CAT003-5 IGN_485_2H CAT003-6 IGN_900_2H CAT003-7 TT_110_16H CAT003-8 TT_320_6H CAT003-9 TT_425_6H"	CATALYSIS	Heat Treatment	
"CAT004-1_ATRIC_FCC CAT004-2_ATR_ATRIC_FCC"	CATALYSIS	Jet Cup Attrition test (FCC Catalyst)	INTERNAL METHOD
CAT005_ABRAS_ATRIC	CATALYSIS	Attrition test - Rotating tube	INTERNAL METHOD
CAT006_CAP_CAT_RESIN	CATALYSIS	Total exchange capacity (Resins)	INTERNAL METHOD
"CAT007-1_DEN_APAR_TAP CAT007-2_DEN_AP_FCC CAT007-3_DEN_AP_COQ"	CATALYSIS	Apparent / Tapped Density	INTERNAL METHOD
CAT008_DENS_REAL	CATALYSIS	True density (Helium Pycnometry)	INTERNAL METHOD
CAT009_DES_CAT_HDT	CATALYSIS	Hydrotreating catalyst preparation	INTERNAL METHOD
"CAT010-1_TPD_NH3 CAT010-2_TPD_HE"	CATALYSIS	Ammonia Temperature-programmed desorption (TPD)	INTERNAL METHOD
CAT011_PARA CU_ZEOLI	CATALYSIS	Unit Cell parameter CAT. FCC	INTERNAL METHOD
"CAT012-1_PART_CAMSIZ CAT012-2_PART_CAMSIZ CAT012-3_PART_CAMSIZ CAT012-4_PART_CAMSIZ"	CATALYSIS	Particle Size Distribution (Image Analysis)	INTERNAL METHOD
"CAT013-1_PART_LASER CAT013-2_PART_LASER CAT013-3_PART_LASER CAT013-4_PART_LASER"	CATALYSIS	Particle Size Distribution (Laser Diffraction)	INTERNAL METHOD
CAT014_SOXHLET	CATALYSIS	Soxhlet Extraction	INTERNAL METHOD
CAT015_FINOS_DO	CATALYSIS	Filtration and quantification of particles in liquids	INTERNAL METHOD
CAT016_TPO	CATALYSIS	Temperature Programmed Oxidation	INTERNAL METHOD
"CAT017-1_POROSIMETRI CAT017-2_DENS_PARTIC"	CATALYSIS	Mercury porosimetry	INTERNAL METHOD
CAT023_VOL_PORO_AGUA	CATALYSIS	Pore Volume (Water Saturation)	INTERNAL METHOD
"CAT024-1_PREP_CATALI CAT024-2_PREP_CATALI CAT024-3_PREP_CATALI CAT024-4_PREP_CATALI CAT024-5_PREP_CATALI"	CATALYSIS	Catalyst Preparation (Ball milling)	INTERNAL METHOD



REPSOL TECHNOLOGY LAB REFERENCE	TYPE OF TEST	DESCRIPTION	METHOD / PROCESS
CAT025-1_PRES_ROTURA CAT025-2_PRES_ROTURA	CATALYSIS	Crush Strength Test	INTERNAL METHOD
CAT026-1_QUIMISOR_CO CAT026-2_QUIMISOR_H2 CAT026-3_QUIMI_H2-02 CAT026-4_QUIMISOR_02	CATALYSIS	Chemisorption	INTERNAL METHOD
CAT027_REAC_CAT_HC	CATALYSIS	Hydrocracking catalyst preparation	INTERNAL METHOD
CAT028-1_TPR CAT028-2_TPR_MASAS	CATALYSIS	Temperature programmed reduction (TPR)	INTERNAL METHOD
CAT029_VOL POR N2 EXT	CATALYSIS	Nitrogen adsorption-desorption Isotherm	INTERNAL METHOD
CAT030_BET_N2_EXT	CATALYSIS	BET Surface Area	INTERNAL METHOD
CAT031_ZE_MAT_EXT	CATALYSIS	Nitrogen adsorption-desorption Isotherm (FCC Catalyst)	INTERNAL METHOD
CAT032_V_POR_HG_EXT	CATALYSIS	Mercury Porosimetry	INTERNAL METHOD
RC091_2D_FAST_IMA_PRO	CORE_ANALYSIS	2D FAST Image Processing and Morphometric Analysis	INTERNAL METHOD

REPSOL TECHNOLOGY LAB REFERENCE	TYPE OF TEST	DESCRIPTION	METHOD / PROCESS
MOT001_DUREZ_BRINELL	ENGINE	Brinell hardness	INTERNAL METHOD
MOT002_DUR_ROCKWELL	ENGINE	Rockwell hardness	INTERNAL METHOD
MOT003_DUR_VICKERS	ENGINE	Vickers hardness	INTERNAL METHOD
MOT004_ADITIV_MOTOR	ENGINE	Evaluation of gasoline additives in motor GDI VW 1,2 TSI	INTERNAL METHOD
MOT005_EVAL_LUB_VEH1	ENGINE	Lubricant evaluation in vehicle (Dyno chassis)	INTERNAL METHOD
MOT007-1_RON MOT007-2_MON	ENGINE	Octane determination in CFR engine	RON: ASTM D2699; MON: ASTM D2700
MOT008_PART_D1319	ENGINE	Pollutant particles	ASTM D1319
MOT009_CONSUM_EMISI	ENGINE	Fuel consumption and vehicle emissions test (HC, CO, NOx, CO2, PM y PN) on dyno chassis	NEDC, WLTC
MOT010_TRACING_SYST	ENGINE	Análisis perfilométrico (Tracing system)	
MOT011_Ensaya carga DPF	ENGINE	DPF load test	NEDC, WLTC
MOT012_Ensaya NEDC o WLTC (sin bolsas de dilución)	ENGINE	NEDC or WLTC test (no dilution bags)	INTERNAL METHOD
MOT013_Evaluación lubricante en vehículo (banco de rodillos)	ENGINE	Vehicle lubricant test (Dyno chassis)	INTERNAL METHOD
MOT014_Evaluación combustible en vehículo (banco de rodillos)	ENGINE	Vehicle fuel test (Dyno chassis)	INTERNAL METHOD
MOT015_Ensaya de larga duración (15.000 km)	ENGINE	Long-term test on dyno chassis (15.000 km)	INTERNAL METHOD
MOT016_Ensaya de larga duración (160.000 km)	ENGINE	Long-term test on dyno chassis (160.000 km)	INTERNAL METHOD
MOT017_Ensaya de duración de aceite de competición para motos	ENGINE	Life test of competition oil for motorcycles	INTERNAL METHOD
MOT018_Ensaya prestaciones de aceite de competición para motos	ENGINE	Performance test of competition oil for motorcycles	INTERNAL METHOD
MOT019_Ensaya prestaciones de gasolina de competición para motos	ENGINE	Performance test of competition gasoline for motorcycles	INTERNAL METHOD
MOT020_Ensaya de prestaciones de un aceite comercial en motor Scooter	ENGINE	Performance test of a commercial oil in Scooter engine	INTERNAL METHOD
MOT021_Ensaya de duración de un aceite comercial en motor Scooter	ENGINE	Life test of a commercial oil in Scooter engine	INTERNAL METHOD
MOT022_Evaluación aditivos gasolina en motor (Keep Clean)	ENGINE	Evaluation of gasoline additives in engine (Keep Clean)	INTERNAL METHOD
MOT023_Evaluación aditivos gasolina en motor (Clean Up)	ENGINE	Evaluation of gasoline additives in engine (Clean Up)	INTERNAL METHOD
MOT024_Evaluación Aditivos Diésel	ENGINE	Diesel additive evaluation	INTERNAL METHOD
Ensaya del ensuciamiento de inyectores en motor Diésel pesado	ENGINE	Injector fouling test in heavy diesel engine	INTERNAL METHOD
MOT007-1_RON MOT007-2_MON	ENGINE	RON determination in CFR engine	RON: ASTM D2699; MON: ASTM D2700



REPSOL TECHNOLOGY LAB REFERENCE	TYPE OF TEST	DESCRIPTION	METHOD / PROCESS
MOTO07-1_RON MOTO07-2_MON	ENGINE	MON determination in CFR engine	RON: ASTM D2699; MON: ASTM D2700
MOTO24_Comprobación de Inyectores	ENGINE	Injectors check	INTERNAL METHOD
DES000_DENSIDAD_PP	DISTILLATION	Determination of density and relative density of liquids	ASTM D4052
DES001_AG_DEST_D4006	DISTILLATION	Water by distillation	ASTM D4006
DES002_DEST_D1160	DISTILLATION	Distillation ASTM D-1160	ASTM D1160
DES004_TBP_CRUD_EFL	DISTILLATION	Crude TBP curve distillation (15 L)	ASTM D2892
DES005_DES_POT_STILL	DISTILLATION	Distillation Pot Still	ASTM D5236
DES007_DESHID_CRUDOS	DISTILLATION	Crude dehydration	INTERNAL METHOD
DES008_CAP_FIN	DISTILLATION	Thin layer distillation	INTERNAL METHOD
DES009_TBP_EFL	DISTILLATION	Distillation curve TBP of effluents conversion	ASTM D2892

REPSOL TECHNOLOGY LAB REFERENCE	TYPE OF TEST	DESCRIPTION	METHOD / PROCESS
AE005_IR_MICROSCOPIA	IR	IR spectrum acquisition by IR microscopy	INTERNAL METHOD
AE007_RMN_2D	NMR	Two-dimensional NMR spectrum acquisition	INTERNAL METHOD
AE011_UV	IR	UV-visible spectrum acquisition	INTERNAL METHOD
AE012_RMN_13C	NMR	Acquisition of Carbon NMR spectrum (13C)	INTERNAL METHOD
AE014_RMN_1H	NMR	Acquisition of Proton NMR spectrum (1H)	INTERNAL METHOD
AE015_RMN_31P	NMR	Acquisition of Phosphorus NMR spectrum (31P)	INTERNAL METHOD
AE016_IR_GC	IR	Analysis by Gas Chromatography coupled to IR	INTERNAL METHOD
AE017_IR_TGA	IR	Thermogravimetric analysis (TGA) coupled to infrared spectrometer (TGA-IR)	INTERNAL METHOD
AE018_RMN_EBA	NMR	EBA polymer analysis by NMR	INTERNAL METHOD
AE019_IR_SEP_FLASH	IR	Component separation by flash chromatography	INTERNAL METHOD
AE020_UV_ASFALTENOS	IR	Asphaltenes analysis by standar IFP 9313	IFP 9313
AE025_RMN_POLIOL_GLI	NMR	Determination of the structure of glycerin-initiated polyols by NMR	INTERNAL METHOD
AE032_IR_ADITIVOS	IR	Structural identification of additives by IR	INTERNAL METHOD
AE034_RMN_INS_FUMAR	NMR	Determination of fumaric unsaturations in polymeric polyols by NMR	INTERNAL METHOD
AE035_RMN_EST_POLSAN	NMR	Microstructure determination of polymeric polyols by NMR	INTERNAL METHOD
AE041_RMN_TRIADAS	NMR	Triad sequence determination of copolymers by NMR	INTERNAL METHOD
AE044_IR_FAME	IR	Determination of FAME in diesel by IR	UNE-14078
AE045_IR_INSATURACIO	IR	Determination of unsaturations by IR	INTERNAL METHOD
AE046_IR_BRANDES	IR	Determination of the distribution of carbon atoms in oils (Brandes method)	ISA-E-11.00
AE047_RMN_AV_EVA	NMR	Microstructure determination of EVA copolymers by NMR	INTERNAL METHOD
AE050_RMN_EST_POLIOL	NMR	Microstructure determination of flexible polyols by NMR	INTERNAL METHOD
AE051_RMN_DISTR_PROT	NMR	Determination of the different types of hydrogen and carbons in a sample by 1H-NMR	INTERNAL METHOD
AE052_IR_MO_D7066	IR	Determination of organic matter in water by IR (D7066)	ASTM D7066
AE053_IR_MO_D7678	IR	Determination of organic matter in water by IR (D7678)	ASTM D7678
AE054_RMN_EST_CAUCHO	NMR	Microstructure determination of rubber by RMN	INTERNAL METHOD
AE055_IR_PCA	IR	Determination of polycyclic aromatic hydrocarbons (PCAs) by IR	INTERNAL METHOD
AE060_IR_IOH_POLIOL	IR	Determinación del índice de hidroxilo en polioles por IR	INTERNAL METHOD
AE061_RMN_AROMATICIDAD	NMR	Determination of the hydroxyl number in polyols by IR	INTERNAL METHOD
AE064_IR_MICRO_RAMAN	IR	Analysis of functional groups distribution by Raman microscopy	INTERNAL METHOD
AE065_MASAS	MASAS	Semi-quantitative analysis of the hydrocarbon composition of middle distillates by mass spectrometry (Fisher method)	INTERNAL METHOD
AE068_RMN_ADITIVOS	NMR	Identification of additives by NMR	INTERNAL METHOD



REPSOL TECHNOLOGY LAB REFERENCE	TYPE OF TEST	DESCRIPTION	METHOD / PROCESS
AE069_RMN_COMP	NMR	Identification of components of a sample by NMR	INTERNAL METHOD
AE070_IR_IDE_RAMAN	IR	Component identification by Raman spectroscopy	INTERNAL METHOD
AE071_IR_IDE_COMP	IR	Identificación de componentes por IR	INTERNAL METHOD
AE077_RMN_ISOCIANATO	NMR	Determination of ¹ H- ¹³ C isocyanates	INTERNAL METHOD
AE079_IR	IR	IR spectrum acquisition	INTERNAL METHOD
AE081_RMN_DIFUSIÓN	NMR	One-dimensional (DOSY-1D) and / or two-dimensional (DOSY-2D) diffusion NMR spectrum acquisition	INTERNAL METHOD
AE082_RMN_MAA	NMR	Determination of methacrylic acid in polyolefins	INTERNAL METHOD
AE083_RMN_POLIOLEFINA	NMR	Microstructure determination of polyolefins by NMR	INTERNAL METHOD
AQ105_SILICIO_UA	STRUCTURAL ANALYSIS	Determination of Si in gasoline by Inductively coupled plasma (ICP)	INTERNAL METHOD
AQ153_REAC_AVANZADA	CHEMICAL ANALYSIS	Scale up process in reactor	INTERNAL METHOD
AQ058_OXIGENO_ELEMEN	STRUCTURAL ANALYSIS	Total oxygen quantification	INTERNAL METHOD
BIO044_FERMENTADORES	BIOTECHNOLOGY	Fermentation processes up to 20 L	INTERNAL METHOD
BIO046_BIOLECTOR	BIOTECHNOLOGY	Microfermentation processes in Biolector	INTERNAL METHOD
AQ098_UOP_407	STRUCTURAL ANALYSIS	Determination of metals in hydrocarbons according to the UOP-407 method	UOP-407
AQ019_DELTA_OXIGENO	STRUCTURAL ANALYSIS	Determination of stable oxygen isotopes by (Isotope-Ratio Mass Spectrometry (IRMS)	INTERNAL METHOD
AQ014_AMONIO_CI	STRUCTURAL ANALYSIS	Quantification of ammonia in aqueous samples by ion chromatographyCuantificación de amonio en muestras acuosas por cromatografía iónica	INTERNAL METHOD
AQ107_DSC_CALOR_ESP	ANÁLISIS TÉRMICO	Determination of the specific heat of a substance using DSC	INTERNAL METHOD
BIO012_WESTERN_BLOT	BIOTECHNOLOGY	Western blot	INTERNAL METHOD
BIO013_LIG_PLASMIDOS	BIOTECHNOLOGY	Plasmid digestion and ligation	INTERNAL METHOD
AQ051_AMINAS_CI	STRUCTURAL ANALYSIS	Quantification of amines in aqueous samples by ion chromatography	INTERNAL METHOD
AQ040_YODO_AGUA_CI	STRUCTURAL ANALYSIS	Quantification of iodide in aqueous samples	INTERNAL METHOD
AQ042_CL_ORG_INORG	STRUCTURAL ANALYSIS	Determination of the organic and inorganic chlorine content	INTERNAL METHOD
AQ079_PERLA_FCC	STRUCTURAL ANALYSIS	Determination of Aluminum and Silicon in FCC catalysts by FRX	INTERNAL METHOD
AQ038_P_INDUC_PDSC	LUBRICANTES	PDSC induction period	INTERNAL METHOD
AQ147_CSIA	STRUCTURAL ANALYSIS	Determination of stable isotopes by GC-IRMS	INTERNAL METHOD
AQ155_ULTRAWAVE	STRUCTURAL ANALYSIS	Digestion of samples from different matrices using Ultrawave (Closed vessel digestion)	INTERNAL METHOD
AQ156_FUSION	STRUCTURAL ANALYSIS	Digestion of samples from different matrices by fusion	ASTM D5184

REPSOL TECHNOLOGY LAB REFERENCE	TYPE OF TEST	DESCRIPTION	METHOD / PROCESS
AQ072_TDS_TSS_5907	CHEMICAL ANALYSIS	Standard Test Methods for Filterable Matter (Total Dissolved Solids) and Nonfilterable Matter (Total Suspended Solids) in Water	ASTM D5907
AQ008_CENIZAS_SULFAT	CHEMICAL ANALYSIS	Sulphated ash	ASTM D874
AQ136_P_ULTRAWAVE	STRUCTURAL ANALYSIS	Determination of phosphorus in hydrocarbons by digestion	INTERNAL METHOD
AQ025_ANIONES_SOL_AC	STRUCTURAL ANALYSIS	Quantification of anions (NO ₃ , NO ₂ , SO ₄ , F, Cl, Br, PO ₄) in aqueous samples	INTERNAL METHOD
AQ017_DELTA_CARBONO	STRUCTURAL ANALYSIS	Determination of stable isotopes of carbon by IRMS	INTERNAL METHOD
AQ018_DELTA_HIDROGEN	STRUCTURAL ANALYSIS	Determination of stable hydrogen isotopes by IRMS	INTERNAL METHOD
AQ080_ARSENICO_ICPMS	STRUCTURAL ANALYSIS	Determination of Arsenic in heavy GO by ICP-MS	INTERNAL METHOD
AQ152_REAC_BASICA	CHEMICAL ANALYSIS	Simple reaction in open reactor	INTERNAL METHOD
AQ154_MICRO_FRX	STRUCTURAL ANALYSIS	Micro-X-Ray fluorescence analysis	INTERNAL METHOD
AQ020_ASTM5184_3/AQ020_FO_INTA	STRUCTURAL ANALYSIS	Quantification of metals in fuel oils	INTERNAL METHOD
AQ022_POLIOL_ICP_1	STRUCTURAL ANALYSIS	Quantification of Co and Zn in polyols by ICP-OES	INTERNAL METHOD
AQ023_SN_FRX	STRUCTURAL ANALYSIS	Quantification of Sn in polyolefins by XRF	INTERNAL METHOD
AQ024_ZN_FRX	STRUCTURAL ANALYSIS	Quantification of Zn in polyolefins by XRF	INTERNAL METHOD
AQ070_AGUA_VA	CHEMICAL ANALYSIS	Determination of water content by Karl Fischer and amperometric detection	INTERNAL METHOD
AQ071_AGUA_VC	CHEMICAL ANALYSIS	Determination of water content by Karl Fischer and coulometric detection	INTERNAL METHOD
AQ146_DSC	ANÁLISIS TÉRMICO	Differential Scanning Calorimetry (DSC)	INTERNAL METHOD
AQ004_TGA	ANÁLISIS TÉRMICO	Thermogravimetric analysis (TGA)	INTERNAL METHOD
AQ129_SH2_EVOL	STRUCTURAL ANALYSIS	Determination of evolved hydrogen sulfide	INTERNAL METHOD
BIO009_DEG_POLIMEROS	BIOTECHNOLOGY	Polymer degradation simulating biodegradation and composting standards	INTERNAL METHOD
AQ026_ARSENICO_ICPMS	STRUCTURAL ANALYSIS	Quantification of arsenic in crude	INTERNAL METHOD
BIO054_TOX_EC50_15	BIOTECHNOLOGY	Determination of toxicity EC50-15min	INTERNAL METHOD
AQ138_OMNIAN_Vacío	STRUCTURAL ANALYSIS	Semi-quantitative analysis by XRF under vacuum	INTERNAL METHOD
AQ029_CO3_HC03	CHEMICAL ANALYSIS	Quantification of carbonates and bicarbonates in aqueous samples	INTERNAL METHOD
AQ157_CAUCHO_10G	STRUCTURAL ANALYSIS	Quantification of Li, Mg, Ca, Fe and / or Ti in rubber (10 g method)	INTERNAL METHOD
AQ150_TDS_ASTM5907	CHEMICAL ANALYSIS	Standard Test Methods for Filterable Matter (Total Dissolved Solids)	ASTM D5907



REPSOL TECHNOLOGY LAB REFERENCE	TYPE OF TEST	DESCRIPTION	METHOD / PROCESS
AQ151_TSS_ASTM5907	CHEMICAL ANALYSIS	Standard Test Methods for Nonfilterable Matter (Total Suspended Solids) in Water	ASTM D5907
AQ137_OMNIAN_HELI0	STRUCTURAL ANALYSIS	Semi-quantitative analysis by XRF in He	INTERNAL METHOD
AQ128_SH2	STRUCTURAL ANALYSIS	Quantification of dissolved hydrogen sulfide	INTERNAL METHOD
AQ103_PH	CHEMICAL ANALYSIS	pH Determination	INTERNAL METHOD
AQ076_CENIZAS_550/ AQ076_CENIZAS_700	CHEMICAL ANALYSIS	Ash content determination	INTERNAL METHOD
BIO006_CULTIV_MATRAZ	BIOTECHNOLOGY	Cultivation of microorganisms in different conditions on a small and medium scale: double-closed tube or Erlenmeyer	INTERNAL METHOD
AQ005_ASTMD3279	CHEMICAL ANALYSIS	Asphaltenes determination	ASTM D3279
AQ124_C_CONRADSON	CHEMICAL ANALYSIS	Determination of carbon residue Conradson (CCR)	ASTM D189
AQ125_C_RAMSBOTTOM	CHEMICAL ANALYSIS	Determination of carbon residue Ramsbottom (RCR)	ASTM D524
AQ009_CONDUCTIVIDAD	CHEMICAL ANALYSIS	Conductivity test	ASTM D2624
AQ030_CATIONES_ICP_1	STRUCTURAL ANALYSIS	Quantification of cations (Ca, Mg, Ba, Sr, Na, K and Fe) in well water	INTERNAL METHOD
AQ064_SI_FRX	STRUCTURAL ANALYSIS	Quantification of silicon in polymers by XRF	INTERNAL METHOD
AQ081_TBN_ASTMD2896/ AQ081_TBN_HCL/AQ081_TBN_HClO4	CHEMICAL ANALYSIS	Determination of basicity TBN	ASTM D2896
AQ112_ASTM_D974	CHEMICAL ANALYSIS	Acidity index	ASTM D974
AQ113_I_ACIDEZ_COLOR	CHEMICAL ANALYSIS	Acid number (colorimetric-dielectric)	UNE 62021-2
AQ119_ASTMD1159	CHEMICAL ANALYSIS	Bromine number	ASTM D1159
AQ120_ASTMD664	CHEMICAL ANALYSIS	Neutralization number by potentiometric titration	ASTM D664
AQ149_ASTMD_5185	STRUCTURAL ANALYSIS	Determination of 22 metals by ICP	ASTM D5185
AQ002_IOH	CHEMICAL ANALYSIS	Determination of the Hydroxyl number (IOH)	INTERNAL METHOD
AQ061_DQO	CHEMICAL ANALYSIS	Chemical Oxygen Demand (COD)	INTERNAL METHOD
AQ115_INSAT_HG/BR	CHEMICAL ANALYSIS	Measurement of the degree of unsaturation by HG / Br methods	INTERNAL METHOD

REPSOL TECHNOLOGY LAB REFERENCE	TYPE OF TEST	DESCRIPTION	METHOD / PROCESS
AQ038_ASTMD4662	CHEMICAL ANALYSIS	Determination of acid numbers of polyols	ASTM D4662
AQ148_PEROXIDOS	CHEMICAL ANALYSIS	Quantification of organic peroxides and / or acidity determination in SM-OP	INTERNAL METHOD
AQ144_NA_F.LLAMA	STRUCTURAL ANALYSIS	Na content by flame photometry	INTERNAL METHOD
AQ145_K_F.LLAMA	STRUCTURAL ANALYSIS	K content by flame photometry	INTERNAL METHOD
AQ007_UOP163	CHEMICAL ANALYSIS	Mercaptan sulfur	UOP-163
AQ117_UOP269	STRUCTURAL ANALYSIS	Basic nitrogen	UOP-269
AQ139_ASTMD5762_4629	STRUCTURAL ANALYSIS	Nitrogen quantification by chemiluminescence	ASTM D5762-4629
AQ140_S_ISO20846	STRUCTURAL ANALYSIS	Sulfur quantification by ultraviolet method	ISO20846
AQ011_ASTMD7536	STRUCTURAL ANALYSIS	Chlorine quantification by Monochromatic Wavelength Dispersive X-ray Fluorescence	ASTM D7536
AQ141_S_ASTMD4294	STRUCTURAL ANALYSIS	Sulfur quantification by Energy Dispersive X-ray Fluorescence Spectrometry	ASTM D4294
AQ068_DMC_ICP	STRUCTURAL ANALYSIS	Quantification of Zn, Co and K in DMC catalysts (EXT)	INTERNAL METHOD



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