

Lubricants and Oils by Transmission FT-IR Spectral Library

Index of Compounds

| <u>No.</u> | <u>Compound Description</u> | <u>No.</u> | <u>Compound Description</u> |
|------------|--|------------|--------------------------------|
| 321 | 1-LZ | 459 | ARAL Multi Turboral DL10W40 |
| 52 | A2 | 460 | ARAL Multi Turboral DL15W40 |
| 704 | AC DELCO Supreme 15W40 | 461 | ARAL Multi Turboral Plus 15W40 |
| 220 | acetone | 642 | ARAL Super Kowal New |
| 870 | ADDINOL ATF DIID | 548 | ARAL Super LL |
| 876 | ADDINOL CLP 150 | 491 | ARAL Super Tronic |
| 875 | ADDINOL CLP 160 | 353 | ARAL TDL32 - (NaCl) |
| 866 | ADDINOL CLP 320 | 4 | ARAL Top Super 15W40 |
| 883 | ADDINOL Diesel Longlife HD 1546 | 661 | ARECA Super Multigrade 15W40 |
| 879 | ADDINOL HLP 100 | 665 | ARECA Super Multigrade 20W50 |
| 878 | ADDINOL HLP 22 | 178 | Army Petrol |
| 706 | ADDINOL MV 1546E | 463 | AUTOL CPM 15W40 |
| 873 | ADDINOL Super Diesel 1545 | 465 | AUTOL Turbo FE10W40 |
| 872 | ADDINOL Super Economic MV 1046 | 464 | AUTOL Valve SHP 15W40 |
| 868 | ADDINOL Super Light 5W40 | 559 | AVJA Avilub FC-46 |
| 927 | ADDINOL Super Star MX 15W40 | 466 | AVJA Multigrade Plus 15W40 |
| 884 | ADDINOL TRF-HX | 467 | BAYWA TITAN Truck 15W40 |
| 874 | ADDINOL XG 86 | 410 | BECHEM K1R |
| 2 | AGIP 80W90 | 209 | Benzine |
| 3 | AGIP ITE 320 | 208 | Benzine 140/200 |
| 818 | AGIP New Sint 2000 10W40 | 211 | Benzine 85/160 |
| 636 | AGIP OSO 32 | 212 | Benzine 90/150 |
| 647 | AGIP OTE 32 | 210 | Benzine for aircraft |
| 814 | AGIP Rotra 10W90 | 664 | Bio HYDO 10W |
| 982 | AGIP Sigma Turbo 15W40 | 280 | Biobor JF-US Borax |
| 798 | AGIP Sint Turbodiesel 10W40 | 31 | Biomil P |
| 1011 | AGIP Super Diesel 15W40 | 32 | Biomil P |
| 1 | AGIP Super Motor Oil F.1. 15W50 | 662 | BIOPAL 22 BD28A |
| 455 | AGIP Turbo Diesel 15W40 | 33 | Biorol |
| 807 | AGIP Universal 15W40 | 734 | BIOVIS 80 |
| 1015 | AGIP Universal 15W40 | 692 | BOSS 338 |
| 326 | AK25A | 697 | BOSS 80W90 |
| 653 | Akvol | 691 | BOSS 824 |
| 575 | ALCR 1 | 696 | BOSS Turbo Tested 15W40 |
| 705 | ALYCOL AL PP 93-66 | 354 | BP CL220 - (NaCl) |
| 856 | Alycol Super AL | 355 | BP CL460 - (NaCl) |
| 810 | AMERICAN STANDARD IMPORT SR 5264 15W40 | 972 | BP Dielectric 180 |
| 308 | AMG 10 | 929 | BP Energol 40 |
| 850 | AMG 10A | 5 | BP Energol HLP 46 |
| 967 | AN 30 | 6 | BP Energol HLP 46 - (NaCl) |
| 670 | ANTOL Multidiesel 15W40 | 469 | BP Energol IC-HF253 |
| 833 | ANTOL Multigreen 15W40 | 12 | BP Gear Oil 80W |
| 569 | ARAL ATF 22D | 356 | BP HLP36 - (NaCl) |
| 352 | ARAL ATF-A | 358 | BP HYP 90 - (NaCl) |
| 637 | ARAL Degasol | 359 | BP J10 - (NaCl) |
| 468 | ARAL Degol BMB 1200 | 360 | BP J9 - (NaCl) |
| 550 | ARAL EP 85W/90 | 946 | BP Maccurat 68 |
| 728 | ARAL Isolan 4047 | 7 | BP Motor Oil 15W40 |
| 724 | ARAL Isolan T | 8 | BP Motor Oil 15W40 |
| 725 | ARAL Isolan TT | 361 | BP Olex1 LX4454E - (NaCl) |
| 1016 | ARAL MUIIT TURBORAL DIX 10W40 | 362 | BP Olex2 LX4454G - (NaCl) |
| 458 | ARAL Multi Turboral 15W40 | 924 | BP Terrac Extra 15W40 |

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|------------|--|------------|--|
| 914 | BP Tractran 9 | 357 | CMT O-75 |
| 651 | BP Vanellus | 956 | CMT Supercut 5-55 |
| 470 | BP Vanellus C3 10W40 | 473 | Comtella 46 |
| 9 | BP Vanellus C3 Extra | 666 | coolant |
| 1014 | BP Vanellus C3 Multigrade 15W40 | 660 | CPN 13 |
| 10 | BP Visco 2000 15W40 | 415 | CRODA CPS ERO 535 |
| 11 | BP Visco 2000 plus 10W40 | 763 | CRODA Dicrol CPS RC 361/1 - (NaCl) |
| 55 | BTS | 765 | CRODA Dicrol CPS RC 429 [RCX0429/1] - (NaCl) |
| 56 | BTS | 764 | CRODA Dicrol CPS RC 476 - (NaCl) |
| 53 | BTS i | 767 | CRODA Dicrol RC 361 - (NaCl) |
| 54 | BTS i | 766 | CRODA Dicrol RC 406/1 - (NaCl) |
| 770 | BURGDORF Durixol 4 DN - (NaCl) | 416 | CRODA R.P.33 |
| 750 | C.V. Joint Grease | 222 | cyklohexane |
| 803 | CALTEX Marathon Motor Oil 15W40 | 938 | Daminol |
| 801 | CALTEX RPM DELO 400 Oil Multigrade 15W40 | 417 | DAUBERT X-241M |
| 411 | CASTROL 491-12-3 | 230 | DEA Cronos Super DX 15W40 |
| 412 | CASTROL 491-27 | 615 | DEA Cronos Super TDL 15W40 |
| 15 | CASTROL 5000 | 231 | DEA Deagear EP-B 85W90 |
| 16 | CASTROL 98 | 363 | DEA HLP36 - (NaCl) |
| 13 | CASTROL Aero 585B | 446 | DEA Toron RX 68 |
| 14 | CASTROL Aero GT 85 | 364 | DEA VCL68 - (NaCl) |
| 839 | CASTROL coolant | 365 | DEA W114 - (NaCl) |
| 836 | CASTROL Disc Brake Fluid | 702 | DIESEL Gold Multigrade 20W40 |
| 25 | CASTROL EPX 90 | 782 | DIETZ Vedolit K 720 AF - (NaCl) |
| 17 | CASTROL Formula RS 10W60 | 771 | DIMA CHEMIE 4144 - (NaCl) |
| 18 | CASTROL GTX 3 | 789 | DIMA CHEMIE Top Fluid 5 - (NaCl) |
| 685 | CASTROL GTX Super Multigrade 10W30 | 847 | DIMA CHEMIE Top Fluid D 5/1 - (NaCl) |
| 19 | CASTROL GTX Super Multigrade 10W40 | 768 | DIMA CHEMIE V 208B - (NaCl) |
| 20 | CASTROL GTX Super Multigrade 10W40 | 578 | Diol |
| 26 | CASTROL LPX 80 | 674 | DIVINOL Multimax HDC3 15W40 |
| 516 | CASTROL O235 15W30 | 677 | DIVINOL Super 15W40 |
| 30 | CASTROL Product 482/12 VCI | 676 | DIVINOL Turbo 15W40 |
| 24 | CASTROL Rustilo 181 | 478 | DOG HD-C 15W40 |
| 21 | CASTROL Rustilo DWX 30 | 479 | DOG HD-C 15W40 New |
| 22 | CASTROL Rustilo DWX 32 | 496 | DOG HD-M 15W40 |
| 23 | CASTROL Rustilo DWX 32 | 498 | DOG HLS 10 |
| 29 | CASTROL Synplex NL G/2 | 499 | DOG HLS 5 |
| 604 | CASTROL Syntilo RHS | 501 | DOG HY-S46 |
| 849 | CASTROL Syntilo R-J571C KW44/99 | 480 | DOG TAD 15W40 |
| 27 | CASTROL TAF-X 75W | 512 | DOW CORNING Molykate BG 20 |
| 28 | CASTROL TQ Dextron II D-22765 | 232 | DOW CORNING Molykate BG 87 Inerta |
| 471 | CASTROL VP TXR | 579 | Duboterm |
| 730 | Cat 10W | 729 | DUSSEK CAMPBELL T3902 |
| 727 | Cat DEO (CF-4) 10W30 | 865 | ECOCUT 2-32 V |
| 726 | Cat DEO (CF-4) 15W40 | 481 | Ecocut 628 LE |
| 668 | Cat GL-5 80W90 | 703 | ECONOGRADE Supergrade 15W40 |
| 684 | Cat TDTO 10W | 34 | Ejektol V |
| 688 | Cat TDTO 30W | 580 | Elaskon 20 |
| 413 | CELLA Master Platu | 233 | ELF 515 |
| 430 | CHEMETALL Parkerol 12 | 234 | ELF Aviation Grease 10 |
| 472 | CHEMICO Lubro MS15W40 | 687 | ELF Competition S 10W40 |
| 841 | CHEMIX Akvalor | 482 | ELF Multiperform 4D 15W40 |
| 799 | CHEVRON Custom Multigrade 15W40 | 483 | ELLER Turbo 15W40 |
| 809 | CHEVRON Supreme Multigrade 15W40 | 638 | ELLMO TD 32 |
| 414 | CHINA MO-1 | 441 | EMUGE Emuge 4 |
| 221 | chloroform | 434 | EMUGE Tapping oil 5 |
| 322 | CIATIM 201 | 35 | Emulzin H |
| 978 | Ciatim 202 | 722 | ERGON HYVOLT II |
| 323 | CIATIM 203 | 36 | ERO-S |
| 581 | Cleencut HB 20 | 37 | ERO-SB |

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|------------|-----------------------------------|------------|--|
| 484 | ES Special 25 | 374 | FUCHS HYP 90 - (NaCl) |
| 366 | ESSO CGLP92 - (NaCl) | 431 | FUCHS Ratak MEP-S |
| 367 | ESSO CLP 324 - (NaCl) | 438 | FUCHS Renax Unitem 2 |
| 368 | ESSO CLPN 220 - (NaCl) | 733 | FUCHS Renolin E7 |
| 369 | ESSO CLPN 225 - (NaCl) | 375 | FUCHS RP4108 - (NaCl) |
| 707 | ESSO Essolube MHC 15W40 | 376 | FUCHS RP4109 - (NaCl) |
| 708 | ESSO Essolube MHX 15W40 | 377 | FUCHS Thermisol QH10 - (NaCl) |
| 988 | ESSO Essolube TDS 15W40 | 788 | FUCHS Tizinol MBO 123 - (NaCl) |
| 1010 | ESSO Essolube TDX 10W40 | 812 | Fuel Oil Extra L |
| 488 | ESSO Essolube XD3 PLUS | 186 | Fuel Oil L |
| 945 | ESSO Febis K 220 | 187 | Fuel Oil L |
| 370 | ESSO HDX 10W40 - (NaCl) | 805 | Fuel Oil L |
| 371 | ESSO HYP 90 - (NaCl) | 816 | Fuel Oil L |
| 486 | ESSO LDX 10W40 | 854 | Fuel Oil L |
| 487 | ESSO MHC 15W40 | 493 | GALAX Super Long |
| 961 | ESSO N 22S | 279 | GGVE 3 |
| 969 | ESSO Spinesso 22 | 901 | GLEITMO 200 |
| 791 | ESSO Super Oil X 15W40 | 971 | GLEITMO 2000 |
| 639 | ESSO Teresso 46 | 888 | GLEITMO 3000 |
| 237 | ESSO Turbo Oil 10F | 899 | GLEITMO 352-3 |
| 793 | ESSO Ultra Oil X 10W40 | 904 | GLEITMO 415 Plus |
| 925 | ESSO Unifarm 10W30 | 886 | GLEITMO 523 |
| 923 | ESSO Unifarm 15W30 | 890 | GLEITMO 551 |
| 235 | ESSO Univis-J13 | 895 | GLEITMO 593 |
| 236 | ESSO Univis-J13 | 897 | GLEITMO 605 |
| 955 | ESSO Univolt 64 | 892 | GLEITMO 750 |
| 731 | ESSO Univolt N53 | 894 | GLEITMO 810 |
| 732 | ESSO Univolt N55 | 906 | GLEITMO 871 |
| 223 | ethanol | 908 | GLEITMO 880 Bio |
| 709 | ethyleneglycol | 975 | GOI-54p |
| 738 | eucalyptus oil | 689 | GOLEM Super 15W50 |
| 214 | Extribo Brno Mobil Therm 603 | 494 | GULF TD 15W40 Formula A |
| 215 | Extribo Brno Mobil Therm 760N | 495 | GULF TD 15W40 Formula B |
| 241 | EXXON Beacon 5127 P290 | 1025 | Gyrol ATF DIII |
| 953 | EXXON Oil for hardening XD 100 | 450 | H515 - (NaCl) |
| 238 | EXXON Turbo Oil 2380 | 845 | HALLIS 225 |
| 239 | EXXON Turbo Oil 2389 | 439 | HEBRO Pro-Stanz 2000 |
| 240 | EXXON Turbo Oil 25 | 440 | HEBRO Pro-Stanz 2000 |
| 607 | Farbest B209 KHC | 774 | HENKEL Gero Cor 3 - (NaCl) |
| 936 | Ferocoat | 418 | HENKEL Kultan 69-2 |
| 930 | FIAT Motore olio 20W50 prottetivo | 427 | HENKEL VP 164/90 |
| 489 | FIAT Urania Turbo 15W40 | 428 | HENKEL VP 879/90 |
| 490 | FINA KAPPA FE 10W40 | 217 | Hitec 580 |
| 612 | FIRE lamp oil | 570 | HLP 38F |
| 611 | flax-seed oil | 571 | HLP 46F |
| 224 | freon 113 - Ledon | 432 | HLP 68C - (NaCl) |
| 216 | Fridex Stabil | 497 | HLPD 46 |
| 669 | FRIDIOL | 500 | HOELTERHOFF Hoelter Oil 519/8F |
| 667 | FRIDIOL Extra | 968 | HOUGHTON LUBRICOR Isofeet LNK |
| 372 | FUCHS 10W40 - (NaCl) | 378 | HOUGHTON LUBRICOR Isomax 166 - (NaCl) |
| 867 | FUCHS 27P | 963 | HOUGHTON LUBRICOR Isorapid 277 |
| 776 | FUCHS 5080 - (NaCl) | 783 | HOUGHTON LUBRICOR Rollub 523 - (NaCl) |
| 408 | FUCHS Anticorit 5012S | 784 | HOUGHTON LUBRICOR Rollub 557 - (NaCl) |
| 407 | FUCHS Anticorit 5080 | 772 | HOUGHTON LUBRICOR Rollub 948K - (NaCl) |
| 959 | FUCHS Anticorit 6120-42E | 773 | HOUGHTON LUBRICOR Rollub 958 - (NaCl) |
| 762 | FUCHS Anticorit DFV 2001 - (NaCl) | 966 | HOUGHTON LUBRICOR Steam Cylinder Oil 2 |
| 948 | FUCHS Anticorit OHK 360 | 250 | HUSQVARNA 2- stroke engine |
| 409 | FUCHS Anticorit RP4107S | 680 | INA DELTA 5 15W40 |
| 584 | FUCHS Delta Lube VG 46 | 683 | INA DELTA Sint 10W40 |
| 602 | FUCHS Delta Renep Super | 952 | INA Polar 150 |

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|------------|--------------------------------------|------------|-------------------------------|
| 502 | INA S5 15W40 | 549 | MOBIL ATF 220 |
| 610 | Inject HKL | 419 | MOBIL CLP 220 |
| 843 | INNOTECH INTERNATIONAL Oil Treatment | 564 | MOBIL Cylrex 200M |
| 503 | IP TARUS Turbo | 551 | MOBIL Delvac 1300 Super |
| 312 | IPM-10 | 474 | MOBIL Delvac 1300 Super 15W40 |
| 38 | ISO 10/15 | 475 | MOBIL Delvac 1300 Super 15W40 |
| 225 | isopropanol | 476 | MOBIL Delvac 1340 |
| 57 | ITO 100 | 507 | MOBIL Delvac 1400 Super |
| 58 | ITO 100 | 508 | MOBIL Delvac 15W30 |
| 625 | ITO 200 | 445 | MOBIL Drawing Oil T 1987 |
| 834 | KARIPOL DOT 3 | 444 | MOBIL Drawing Oil T 1991 |
| 218 | Katol PP | 555 | MOBIL DTE Oil 13 |
| 188 | Kerosene PL 6 | 556 | MOBIL DTE Oil 13 |
| 600 | Kerosene PS2 | 626 | Mobil DTE Oil 13M |
| 448 | KLUEBER Barrierta I/EL Fluid | 560 | MOBIL DTE Oil 18M |
| 453 | KLUEBER Isoflex PDB 38/CX2000 | 451 | MOBIL DTE OIL 22 |
| 949 | KLUEBER Lamora Super Poladd 68 | 350 | MOBIL DTE OIL 24 |
| 449 | KLUEBER Lusin KE 10 | 351 | MOBIL DTE OIL 24 |
| 522 | KLUEBER Petamo GY 193 - (NaCl) | 552 | MOBIL DTE Oil 26 |
| 452 | KLUEBER Polyub Gly 801 | 567 | MOBIL DTE Oil Extra Heavy |
| 751 | KLUEBER Quietsch-Ex | 566 | MOBIL DTE Oil Heavy Medium |
| 251 | KLUEBER Topas NB52 | 565 | MOBIL DTE Oil Medium |
| 844 | K-MART Oil Treatment Reduces Wear | 693 | MOBIL EAL 224H |
| 504 | KMS 40 New | 950 | MOBIL Etna Oil SS Light |
| 557 | KOMPRESSOL Special HD Oil 05 | 253 | MOBIL Gargoyle Arctic oil 540 |
| 72 | Koring 201 | 252 | MOBIL Gargoyle Arctic oil 70 |
| 73 | Koring 205 | 672 | MOBIL Genrex 22 |
| 786 | KUHBIER Seleka 3009/0103/E - (NaCl) | 283 | MOBIL Genrex 26 |
| 787 | KUHBIER Seleka 3009/055 - (NaCl) | 284 | MOBIL Genrex 26A |
| 775 | KUHBIER WH 10 ST - (NaCl) | 285 | MOBIL Genrex 26B |
| 739 | lavender oil | 259 | MOBIL Grease 22 |
| 435 | Liquy Moly LM 373 N | 568 | MOBIL Hydraulic Oil |
| 278 | LITH SHCPM | 534 | MOBIL Hydraulic Oil HLPD32 |
| 582 | Litol 24 | 254 | MOBIL Jet Oil 254 |
| 657 | Lokal OV-B28 | 255 | MOBIL Jet Oil II |
| 437 | Lokal OV-B31 | 256 | MOBIL MCP 319A |
| 1006 | Lokal-P 31 | 547 | MOBIL Mobilect 37 |
| 830 | LTC Valco Extra Premium 15W40 | 553 | MOBIL Mobilfluid 125 |
| 160 | Lukooil M100 | 510 | MOBIL Mobilgard 312 |
| 161 | Lukooil M50 | 511 | MOBIL Mobilgard SHC120 15W40 |
| 310 | LZMG2 | 558 | MOBIL Mobilgear 629 |
| 163 | M 200 | 544 | MOBIL Mobilgear 630 |
| 319 | M16IChP3 | 562 | MOBIL Mobilgear 632 |
| 99 | M6W/20D | 546 | MOBIL Mobilgear 636 |
| 999 | Madit Tirman 15W40 | 509 | MOBIL Pegasus 100/40 |
| 1019 | Madit Turbo Plus 15W40 | 649 | MOBIL Pegasus 485 |
| 965 | Madol 920 | 1003 | MOBIL Pegasus 489 |
| 855 | marker for Fuel Oil Light | 640 | MOBIL Pegasus 490 |
| 585 | Mavok | 420 | MOBIL PG 150 |
| 309 | MGE10A | 260 | MOBIL Plex 45 |
| 769 | MIROBO 4155 - (NaCl) | 545 | MOBIL Rarus 424 |
| 381 | MIROBO Mirostat 240 - (NaCl) | 960 | MOBIL SHC 524 |
| 382 | MIROBO Mirostat 361 - (NaCl) | 561 | MOBIL SHC 630 |
| 383 | MIROBO Mirostat 363 - (NaCl) | 442 | MOBIL Sultran AX |
| 777 | MIROBO Mirostat 3710 - (NaCl) | 257 | MOBIL Super 15W40 |
| 379 | MIROBO VCL68 - (NaCl) | 686 | MOBIL Super Formula XHP 10W40 |
| 380 | MIROBO W114 - (NaCl) | 258 | MOBIL Super HP 10W40 |
| 59 | MK | 528 | MOBIL TAC A |
| 313 | MK 8 P | 970 | MOBIL Tecrex 77 |
| 314 | MK 8 P | 429 | MOBIL T-M - (NaCl) |

| <u>No.</u> | <u>Compound Description</u> | <u>No.</u> | <u>Compound Description</u> |
|------------|------------------------------------|------------|-----------------------------|
| 563 | MOBIL Turbine Oil Medium | 116 | OA-M6ADS II Plus Diesel |
| 958 | MOBIL Vactra No. 4 | 117 | OA-M6ADS III |
| 947 | MOBIL Vactra Oil No. 2 | 118 | OA-M6ADV N |
| 384 | MOBIL VDL68 - (NaCl) | 119 | OA-M7AD Madit Super |
| 944 | MOBIL Velocite Oil No. 6 | 120 | OA-M7AD Madit Super |
| 846 | MOBIL W 261 | 122 | OA-M7ADS III |
| 928 | Mobilfluid 424 | 123 | OA-M7ADS III |
| 1005 | Mogul Diesel DTT 10W40 | 121 | OA-M7ADS III N 15W40 |
| 1022 | Mogul Diesel DTT 15W40 | 124 | OA-M7ADS IV |
| 616 | MOGUL Forte GX 15W40 Multigrade | 126 | OA-M7ADS V |
| 745 | Mogul Green Save | 127 | OA-M7ADX Mogul Super Stabil |
| 586 | MOLEKULAR-TECHNIK Metabond | 128 | OA-M8AD Mogul Super 15W50 |
| 587 | MOLEKULAR-TECHNIK Metabond Natural | 129 | OA-M8AD Mogul Super 15W50 |
| 588 | MOLEKULAR-TECHNIK Metabond Natural | 130 | OA-M8AD Mogul Super 15W50 |
| 195 | Molyka-G | 619 | OA-M9ADS |
| 749 | MOTUL 15W40 | 131 | OA-M9ADV N |
| 813 | MOTUL HP 200 Multigrade 15W40 | 133 | OA-PH 12 |
| 317 | MS14 | 134 | OA-PP 7 |
| 976 | MS-70 | 132 | OA-PP 85W140H |
| 315 | MS-8P | 135 | OA-PP13 |
| 316 | MS-8P | 136 | OA-PP44 |
| 590 | MT-16P | 137 | OA-PP75 W |
| 226 | n-heptane | 138 | OA-PP80 |
| 973 | NK-50 | 139 | OA-PP80 |
| 682 | NPG COOL 8506 | 140 | OA-PP80 |
| 269 | NYCO Grease 37 | 141 | OA-PP80W90 |
| 270 | NYCO Grease 43 | 142 | OA-PP80W90H |
| 262 | NYCO Hydraunycoil FH11 | 143 | OA-PP90 |
| 263 | NYCO Hydraunycoil FH15 | 144 | OA-PP90H |
| 264 | NYCO Hydraunycoil FH15 | 145 | OA-PP90H |
| 265 | NYCO Hydraunycoil FH16 | 146 | OA-PP90H |
| 271 | NYCO Nycolube 123 Grade 4 | 591 | OD-11 |
| 272 | NYCO Nycolube 8 Grade 2 | 592 | OD-11 |
| 273 | NYCO Nycosol 337 | 593 | OD-16 |
| 274 | NYCO Nycosol 5 | 164 | OD-20 |
| 275 | NYCO Nycosol 55 | 165 | OD-3 |
| 266 | NYCO Turbonycoil 210A | 166 | OD-3 |
| 267 | NYCO Turbonycoil 500 | 1033 | OD-4 |
| 268 | NYCO Turbonycoil 525-2A | 594 | OD-8 |
| 421 | NYROSTEN A19/200 | 595 | OD-8 |
| 723 | NYTRO 10BNX | 517 | Oest Dimo Super S3 15W40 |
| 348 | Nytro 10X | 654 | OE-T |
| 349 | Nytro 10X | 42 | OH-HL22 |
| 167 | O-148 | 43 | OH-HM32 |
| 100 | OA-M2T | 44 | OH-HM46 |
| 101 | OA-M2T-Mix | 45 | OH-HM46 |
| 102 | OA-M2T-Mix | 46 | OH-HM68 |
| 103 | OA-M3AD Madit Special | 47 | OH-HV32 |
| 104 | OA-M3AD Madit Special | 48 | OH-HV46 |
| 105 | OA-M5AD Mogul Special | 60 | oil for shockers |
| 106 | OA-M5ADX Mogul Super Extra | 74 | OK-2 A Konkor 101 |
| 107 | OA-M5ADX Mogul Super Extra | 75 | OK-2 A Konkor 101 |
| 108 | OA-M6A | 76 | OK-3 |
| 109 | OA-M6A | 852 | OK-40 |
| 112 | OA-M6AD | 853 | OK-40 |
| 113 | OA-M6AD | 77 | OK-5 A Konkor 103 |
| 114 | OA-M6AD | 78 | OK-5 A Konkor 103 |
| 111 | OA-M6AD N | 79 | OK-5 A Konkor 103 |
| 609 | OA-M6ADS II | 977 | OKB-122-07 |
| 115 | OA-M6ADS II Diesel | 82 | OL-10 |

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|------------|-----------------------------|------------|---|
| 83 | OL-22 | 598 | OR-P4DS |
| 84 | OL-32 | 597 | OSK-68 |
| 85 | OL-46 | 39 | OT-H2 |
| 86 | OL-B1 | 40 | OT-H3 |
| 87 | OL-B1 | 41 | OT-H4 |
| 88 | OL-B1 | 61 | OT-HP3 Hydyn |
| 1028 | OL-B2 | 62 | OT-HP3 Hydyn |
| 89 | OL-B4 | 67 | OT-K12 |
| 90 | OL-B4 | 68 | OT-K18 |
| 989 | Oleum anisi | 69 | OT-K18 |
| 985 | Oleum auranti det. et sesq. | 70 | OT-K28S |
| 991 | Oleum auranti florida | 71 | OT-K8 |
| 992 | Oleum auranti pericarpium | 576 | OV-B 25 |
| 742 | Oleum bergamottae | 656 | OV-B 28 |
| 983 | Oleum cardamomi | 436 | OV-B 31 |
| 996 | Oleum carvi | 838 | OZ-40 LENA |
| 995 | Oleum caryophylli | 518 | PAM Turboflett 15W40 |
| 990 | Oleum cinnamomi ceylonici | 681 | PANOLIN HLP Synth 46 |
| 744 | Oleum citri | 1012 | PANOLIN Universal 15W40 |
| 993 | Oleum citronellae | 63 | PAO8 |
| 942 | Oleum coriandri | 921 | Paracut 15 |
| 740 | Oleum foeniculi | 1024 | Paracut 25 |
| 741 | Oleum geranii verum | 1035 | Paramul ERO-SB |
| 987 | Oleum lavandulae | 519 | PASOL HD-C 15W40 |
| 737 | Oleum mentae piperitae | 520 | PENNASOL TS 15W40 |
| 994 | Oleum rosmarini | 521 | PENNZOIL |
| 743 | Oleum terebinthi | 617 | PENNZOIL ATF2 Automatic Transmission Fluid |
| 1036 | OL-J 10 | 276 | PENNZOIL Biocycle synthetic 2-stroke racing oil |
| 898 | OL-J 100 | 673 | PENNZOIL PZL Turbo 15W40 |
| 859 | OL-J 22 | 864 | PENNZOIL Ultra Turbo 15W40 |
| 934 | OL-J 32 | 695 | PERFORMANCE Plus GLX 80W90 |
| 828 | OL-J 46 | 690 | PETRO Maximum Supreme 10W40 |
| 1027 | OL-J3 | 699 | PETRO Premium |
| 98 | OLJ-46 | 505 | Petro Q8T800RL5-4272 |
| 91 | OL-N2 | 671 | PETRO Super Plus 15W40 |
| 92 | OL-N22 | 698 | PETRO Turbo Canadian Gold 15W40 |
| 93 | OL-N32 | 172 | Petrol (Gas) Natural BA-95N |
| 94 | OL-N32 | 173 | Petrol (Gas) Natural BA-95N |
| 95 | OL-P0 | 754 | Petrol (Gas) Natural BA-95N |
| 96 | OL-P4A | 755 | Petrol (Gas) Natural BA-95N |
| 97 | OL-P8A | 756 | Petrol (Gas) Natural BA-95N |
| 599 | OL-P8P | 174 | Petrol (Gas) Special BA-90 |
| 281 | ÖMV 15W40 | 175 | Petrol (Gas) Special BA-91 |
| 282 | ÖMV 80-85 | 757 | Petrol (Gas) Special BA-91 |
| 932 | ÖMV Austrotrac 10W30 | 758 | Petrol (Gas) Special BA-91 |
| 817 | ÖMV Full Syn | 759 | Petrol (Gas) Special BA-91 |
| 1008 | ÖMV GHD 40 | 760 | Petrol (Gas) Special BA-91 |
| 1007 | ÖMV Korex MB | 761 | Petrol (Gas) Special BA-91 |
| 1038 | ÖMV Start EL 15W40 | 176 | Petrol (Gas) Super BA-96 |
| 815 | ÖMV Syn Com | 177 | Petrol (Gas) Super BA-96 |
| 1001 | ÖMV Truck LD 15W40 | 753 | Petrol (Gas) Super BA-96 |
| 1023 | ÖMV Truck Light 5W40 | 658 | Petroleum (Diesel) |
| 1021 | ÖMV Truck M Plus 15W40 | 800 | Petroleum (Diesel) NM 22A |
| 893 | ÖMV Truck Plus 10W40 | 181 | Petroleum (Diesel) NM-22 |
| 49 | ON-1 | 179 | Petroleum (Diesel) NM-22 B |
| 66 | ON-5V | 180 | Petroleum (Diesel) NM-22 B |
| 286 | OPTIMOL Long Time PD2 | 182 | Petroleum (Diesel) NM-30 |
| 287 | OPTIMOL Opti Temp TT1 | 183 | Petroleum (Diesel) NM-35 |
| 162 | ORP2DS | 184 | Petroleum (Diesel) NM-35 |
| 171 | OR-P3 | 589 | Petroleum (Diesel) NM-4 A |

| <u>No.</u> | <u>Compound Description</u> | <u>No.</u> | <u>Compound Description</u> |
|------------|--|------------|---|
| 185 | Petroleum (Diesel) NM-4 B | 386 | QUAKER SD2243 - (NaCl) |
| 797 | PETROMIN OILS Automatic Transmission Fluid | 779 | QUAKER Serie 400 - (NaCl) |
| 796 | PETROMIN OILS Diesel Engine Oil HD SAE 40 | 65 | R2 |
| 795 | PETROMIN OILS Extra Super Multigrade 15W40 | 700 | RAD 2000 |
| 792 | PETROMIN OILS Gear Oil HD 140 | 147 | rape-seed oil |
| 832 | PETROMIN OILS Petroboard SS TC-V II | 454 | Raziol |
| 794 | PETROMIN OILS Premium Motor Oil SAE 40 | 289 | Ritzol 100 Li |
| 601 | Petropal | 524 | RMV Rhemotol 15W40 |
| 422 | PFINDER P 160 | 443 | ROCOL Ultracut R RTD |
| 1000 | PHILLIPS Super HD II 15W40 | 911 | ROGI-15W |
| 191 | PM-AK 1EP | 902 | ROGI-4K |
| 573 | PM-AK 2EP | 900 | ROGI-4KA |
| 189 | PM-AK2 | 910 | ROGI-4W |
| 574 | PM-AKG2 | 909 | ROGI-5K |
| 190 | PM-AKM 2 | 905 | ROGI-5KA |
| 198 | PM-K3S | 907 | ROGI-5KG |
| 635 | PM-KN 2 | 903 | ROGI-5KM |
| 199 | PM-LA2 | 912 | ROGI-5W |
| 583 | PM-LKP 00 | 913 | ROGI-6K |
| 200 | PM-LV2EP | 917 | ROGI-EKO 1 |
| 201 | PM-MOGUL LV2-3 | 916 | ROGI-EKO W |
| 202 | PM-NH2 | 918 | ROGI-KP EKO |
| 203 | PM-NH2 | 915 | ROGI-SV |
| 204 | PM-PZ0 P | 80 | S2 |
| 485 | Poly-(chlorotrifluorethylene) oil | 81 | S79 |
| 577 | poppy-seed oil | 525 | SAARBERG 15W40 HD3CX |
| 808 | Power Supreme | 824 | SAFETY-KLEEN Performance Plus Engine Oil ZR 10W40 |
| 1030 | Premol PP-13 | 835 | SAFETY-KLEEN Performance Plus Motor Oil TC-A |
| 1032 | Premol PP-44 | 305 | SHELL Aero GR6 |
| 148 | Primol Eko 100K | 299 | SHELL 15W50 Multigrade |
| 149 | Primol Eko 100K | 387 | SHELL 1801 - (NaCl) |
| 156 | Primol Eko 36H | 456 | SHELL 9562 Albatros |
| 157 | Primol Eko 36H | 293 | SHELL Aero 100 |
| 152 | Primol Eko 36P | 298 | SHELL Aero Fluid ASF-41 |
| 153 | Primol Eko 36P | 620 | SHELL Aero Fluid 12 |
| 150 | Primol Eko 68L | 623 | SHELL Aero Fluid 3 |
| 151 | Primol Eko 68L | 622 | SHELL Aero Fluid 5L-A |
| 154 | Primol Eko 68V | 294 | SHELL Aero Turbine Oil 3P |
| 155 | Primol Eko 68V | 295 | SHELL Aero Turbine Oil 500 |
| 158 | Primol Eko 80P | 296 | SHELL Aero Turbine Oil 555 |
| 159 | Primol Eko 80P | 297 | SHELL Aero Turbine Oil 560 |
| 50 | Primol Eko HTG40 | 621 | SHELL Alvania EP 2 |
| 51 | Primol Eko HTG40 | 457 | SHELL Alvania R3 |
| 652 | Primol Eko Z | 462 | SHELL Argina T40 |
| 842 | PRO-TEC oil Booster | 389 | SHELL C225 - (NaCl) |
| 64 | Pulit 32 CF | 390 | SHELL C68 - (NaCl) |
| 1034 | Pulit 46 CF | 391 | SHELL CL16 - (NaCl) |
| 986 | Pulit P3CF | 292 | SHELL Clavus 15 |
| 506 | Q8T700RL5-4273 | 823 | SHELL Clavus G 68 |
| 778 | QUAKER 1298 - (NaCl) | 831 | SHELL CRYSTAL OIL 30 |
| 425 | QUAKER 1852-K | 632 | SHELL DEL 4610 |
| 424 | QUAKER 1860-K | 717 | SHELL Diala BX |
| 941 | QUAKER Chemastol - S | 718 | SHELL Diala DX |
| 940 | QUAKER Chemulgol | 719 | SHELL Diala GX |
| 780 | QUAKER DPD 417 N - (NaCl) | 633 | SHELL Diala Oil D |
| 781 | QUAKER DPD 6130 - (NaCl) | 825 | SHELL Donax A |
| 423 | QUAKER Ferrocoate 61-T20-K2 | 933 | SHELL Ensis Oil 30 |
| 572 | QUAKER Quakerol 1083 | 300 | SHELL Fire and Ice 10W40 |
| 935 | QUAKER Quakerol 35 | 644 | SHELL Gadinia Oil 30 |
| 937 | QUAKER Quakerol F | 304 | SHELL Garia T |

No. Compound Description

| | |
|-----|---|
| 926 | SHELL Harvella T 10W30 |
| 392 | SHELL HD30 - (NaCl) |
| 393 | SHELL HD40 - (NaCl) |
| 837 | SHELL Helix Plus 10W40 |
| 301 | SHELL Helix Standart 15W40 |
| 394 | SHELL HLP25 - (NaCl) |
| 395 | SHELL HLP36 - (NaCl) |
| 396 | SHELL HLP46 - (NaCl) |
| 290 | SHELL Hydrol DO-32 |
| 373 | SHELL KKE Turbo T46 |
| 629 | SHELL Malleus Compound C |
| 526 | SHELL Myrina 15W30 |
| 980 | SHELL Myrina 15W40 |
| 513 | SHELL Myrina TX 10W30 |
| 514 | SHELL Myrina X 15W30 |
| 515 | SHELL Mysella 930 |
| 650 | SHELL Mysella Oil 40 |
| 306 | SHELL Retinax A |
| 307 | SHELL Retinax AM |
| 998 | SHELL Rimula TX 15W40 |
| 931 | SHELL Rimula TX 20W50 |
| 643 | SHELL Rimula X30 |
| 645 | SHELL Rotella TX30 |
| 397 | SHELL S5585 - (NaCl) |
| 529 | SHELL S7294 |
| 302 | SHELL Super 10W40 |
| 527 | SHELL Super Diesel T 10W40 |
| 648 | SHELL T32 |
| 398 | SHELL TDL36 - (NaCl) |
| 399 | SHELL TDL46 - (NaCl) |
| 964 | SHELL Tellus 29 |
| 291 | SHELL Tellus C10 |
| 646 | SHELL Tellus C220 |
| 303 | SHELL Tivela Oil WB |
| 827 | SHELL Turbo Oil T32 |
| 829 | SHELL Turbo Oil T46 |
| 426 | SHELL V6939 |
| 400 | SHELL V7062 - (NaCl) |
| 401 | SHELL VDL68 - (NaCl) |
| 790 | SHELL Vitrea 100 - (NaCl) |
| 804 | SHELL Vitrea 32 |
| 802 | SHELL Vitrea 46 |
| 641 | SHELL Vitrea 7078 |
| 318 | SHK |
| 554 | silicone oil |
| 857 | silicone oil |
| 249 | Slick 50 |
| 634 | SMAZKA VNIINP-207 |
| 324 | SMAZKA VNIINP-282 |
| 826 | SPECIALITY OIL Lubriguard Turbo Performance 10W30 |
| 785 | SPHINX RL2-220 - (NaCl) |
| 748 | Steam cylinder oil |
| 402 | STINNES EL3328 - (NaCl) |
| 403 | STINNES EL609CR - (NaCl) |
| 957 | STUART Exelene 416 |
| 954 | STUART Exelene 425 |
| 596 | SUNOCO 6040-E Outboard Motor Oil |
| 327 | SUNOCO Forza 15W40 |
| 981 | SUNOCO Futura 10W40 |
| 746 | SUNOCO Permanent Antifreeze |

No. Compound Description

| | |
|------|---------------------------------------|
| 530 | SUNOCO Sunfleet HPD 15W40 |
| 1037 | SUNOCO Sunvis 846 WR-HV |
| 1002 | SUNOCO Super C Multigrade 15W40 |
| 979 | SUNOCO Super Dynalube |
| 1004 | SUNOCO Super HPD 15W40 |
| 603 | sun-seed oil |
| 720 | Super HD II 15W40 Energy Conserving |
| 330 | SWEPCO |
| 694 | SWEPCO 201 Multipurpose Gear Lube |
| 613 | SWEPCO 306 Multigrade 15W40 |
| 614 | SWEPCO 306 Multigrade 15W40 |
| 675 | SWEPCO ASDLD Engine Oil 301 15W40 |
| 328 | SWEPCO Moly Grease 101 |
| 329 | SWEPCO Moly Grease 105 |
| 655 | Syntol HD 190 |
| 219 | Syntol HD 205 |
| 207 | T3C |
| 168 | T-68 |
| 213 | T6p |
| 205 | T-A OO |
| 196 | T-A4 |
| 385 | TAp 15V |
| 169 | TB-32 |
| 170 | TB-46 |
| 713 | TECHNOL 2000 |
| 714 | TECHNOL 2000 |
| 711 | TECHNOL 296 |
| 710 | TECHNOL 296X |
| 716 | TECHNOL REGENOL |
| 721 | TECHNOL VS4000 |
| 712 | TECHNOL Y3000 |
| 227 | tetrachlormethane |
| 618 | TEXACO Cox GX |
| 404 | TEXACO ETL4400C - (NaCl) |
| 819 | TEXACO Halvoline Superior Grade 10W30 |
| 630 | TEXACO Multifak All Purpose EP 2 |
| 627 | TEXACO Multifak EP 2 |
| 885 | TEXACO Texaflow |
| 922 | TEXACO Textran TDH |
| 531 | TEXACO Ursa LA 20W20 |
| 532 | TEXACO Ursa Super 15W40 |
| 628 | TEXACO Ursa Super 20W50 |
| 1009 | TEXACO Ursa Super LA 15W40 |
| 1013 | TEXACO Ursa Super TD 15W40 |
| 405 | TEXACO VCL68 - (NaCl) |
| 811 | Texas GP 2000 15W40 |
| 1020 | TEXAS Super Duty 15W40 |
| 1017 | TEXAS Turbo Diesel 15W40 |
| 206 | T-G3 |
| 433 | THEIS Nirostol V9 - (NaCl) |
| 243 | TITAN CFE 1040MC |
| 244 | TITAN CFE 1040MC |
| 245 | TITAN CFE 1040MC |
| 247 | TITAN Ekolube CFE |
| 248 | TITAN Ekolube Motor Unimoly |
| 523 | TITAN Plantohyd 40 |
| 242 | TITAN Plantohyd 40N |
| 678 | TITAN SK |
| 679 | TITAN SK 1540 |
| 492 | TITAN Truck 15W40 |

| <u>No.</u> | <u>Compound Description</u> | <u>No.</u> | <u>Compound Description</u> |
|------------|---|------------|---|
| 246 | TITAN Universal HD 1540 | 939 | Valkol K |
| 197 | T-K3 | 344 | VALVOLINE 2T-Mix |
| 311 | TKp | 540 | VALVOLINE All Fleet Extra 15W40 |
| 261 | TL-36 | 345 | VALVOLINE All-Climate 10W40 |
| 192 | T-N1 | 848 | VALVOLINE Slushing oil N-51 |
| 631 | TO ELF | 851 | VALVOLINE Tectyl 477-D |
| 228 | toluene | 346 | VALVOLINE Tectyl 506 EH |
| 533 | TOR Multifleet | 347 | VALVOLINE Tectyl 511 |
| 331 | TOTAL Aero D100 | 447 | Variotrac 32 |
| 332 | TOTAL Aero D80 | 877 | VECO CLP 220 |
| 334 | TOTAL Aero DM 15W50 | 881 | VECO CLP 320 |
| 333 | TOTAL Aero DM 20W60 | 882 | VECO CLP 5 80W90 |
| 339 | TOTAL Aero Grease 22 | 871 | VECO Soluble |
| 335 | TOTAL Aero Hydraulic 316 | 869 | VECO Syntex 5W50 |
| 336 | TOTAL Aero Hydraulic 520 | 880 | VECO VD-L-46 |
| 337 | TOTAL Aerolub 117 | 624 | VESTOIL Diesel 2 |
| 943 | TOTAL Azolla 22 | 606 | VK-L |
| 951 | TOTAL Azolla ZS 100 | 752 | VNIINP 50-1-4-F |
| 962 | TOTAL Azolla ZS 46 | 608 | washing oil |
| 340 | TOTAL Caloris MS3 | 659 | washing oil |
| 343 | TOTAL Drosera MS2 | 887 | WD-40 |
| 889 | TOTAL Household Lubricant | 858 | White oil 45 |
| 338 | TOTAL Jet Turbine 530 | 822 | WINTERSHALL Record 15W40 |
| 920 | TOTAL Multagri TM 15W30 | 820 | WINTERSHALL Running in oil 15W40 |
| 341 | TOTAL Mutisis Tir | 984 | WINTERSHALL TFE 10W40 |
| 806 | TOTAL Quartz 3000 15W40 | 406 | WINTERSHALL W114 - (NaCl) |
| 821 | TOTAL Quartz 5000 15W40 | 541 | WIOLIN Turbo Rekord 15W40 |
| 896 | TOTAL Rubia | 542 | WISURA Multi TS 15W40 |
| 277 | TOTAL Rubia Tir XLD 15W40 | 891 | WYNN OIL XTEND Supreme Plus |
| 919 | TOTAL Rubia XT 15W40 | 840 | WYNN'S Antifreezing diesel additive |
| 342 | TOTAL Specis CU | 229 | xylene |
| 605 | TPD 33-078-62 | 477 | ZELLER GMELIN Divinol Multimax Extra |
| 194 | T-PH2 | 543 | ZENEX 15W40 |
| 388 | Trama ITE 320 | 325 | ZRO |
| 861 | Transformer oil 300 | 6 | 18 point coated carton newsback paper-back side |
| 288 | Transol 130 | 5 | 18 point coated carton newsback paper-coated side |
| 735 | TropArtic All Season 10W40 Energy Conserving | 216 | 2-deoxy-d-glucose |
| 736 | TropArtic Fuel Economy 10W30 Energy Conserving II | 12 | 42# Release paper-release side |
| 715 | TropArtic Turbo 10W30 Energy Conserving II | 21 | 50# lightweight coated offset paper |
| 863 | Trysk Gas | | |
| 1018 | Trysk Global 10W40 | | |
| 110 | Trysk M6A | | |
| 997 | Trysk M6ADS II Plus | | |
| 1029 | Trysk M6ADS II Plus 20W30 | | |
| 1026 | Trysk Racing | | |
| 860 | Trysk Super 15W40 | | |
| 862 | Trysk Super 20W40 | | |
| 125 | Trysk Super Turbo 15W40 (M7ADS IV) | | |
| 1031 | Tryumf K | | |
| 747 | TSp 10 | | |
| 320 | TSz-9hyp. | | |
| 193 | T-V2 | | |
| 535 | UK CD Plus 15W40 | | |
| 536 | UK Promotor 10W40 | | |
| 701 | ULTRA 7 15W40 | | |
| 539 | UNIL Roc 3D 15W40 | | |
| 537 | UNIL Turbo D | | |
| 538 | UNIL Turbo DX | | |
| 974 | USSa | | |
| 663 | V-22 | | |

ATR library listings

There are two versions of the ATR (Attenuated Total Reflectance) library. The only difference in the spectral data between the two versions is that a processing step, called an “ATR Correction,” has been applied to the spectra in the library labeled “Corrected.” The other library contains the same spectra before the processing step was applied.

Both versions of the ATR library contain 538 spectra of various lubricants and oils. The spectra were collected on an FT-IR spectrometer using the Baseline Horizontal ATR accessory from Spectra-Tech Inc., Shelton, CT. The ATR accessory was fitted with a ZnSe (zinc selenide) crystal, which passes infrared energy in the range between 4000 and 650 cm^{-1} . The spectra were measured at 4 cm^{-1} spectral (X-axis) resolution using 128 scans. The pure samples were measured for these libraries so no solvent bands are present in the infrared spectra.

Lubricants and Oils by ATR FT-IR Spectral Library

Index of Compounds

| <u>No.</u> | <u>Compound Description</u> | <u>No.</u> | <u>Compound Description</u> |
|------------|---------------------------------|------------|------------------------------------|
| 291 | 1-LZ | 9 | BP Visco 2000 15W40 |
| 48 | A2 | 10 | BP Visco 2000 plus 10W40 |
| 432 | AC DELCO Supreme 15W40 | 51 | BTS |
| 191 | acetone | 52 | BTS |
| 333 | ADDINOL ATF DIID | 49 | BTS i |
| 321 | ADDINOL CLP 150 | 50 | BTS i |
| 347 | ADDINOL CLP 160 | 374 | C.V. Joint Grease |
| 331 | ADDINOL CLP 320 | 14 | CASTROL 5000 |
| 348 | ADDINOL Diesel Longlife MD 1546 | 15 | CASTROL 98 |
| 344 | ADDINOL HLP 100 | 12 | CASTROL Aero 585B |
| 345 | ADDINOL HLP 22 | 13 | CASTROL Aero GT 85 |
| 430 | ADDINOL MV 1546E | 23 | CASTROL EPX 90 |
| 343 | ADDINOL Super Diesel 1545 | 16 | CASTROL Formula RS 10W60 |
| 342 | ADDINOL Super Economic MV 1046 | 17 | CASTROL GTX 3 |
| 337 | ADDINOL Super Light 5W40 | 450 | CASTROL GTX Super Multigrade 10W30 |
| 378 | ADDINOL Super Star MX 15W40 | 18 | CASTROL GTX Super Multigrade 10W40 |
| 340 | ADDINOL TRF-HX | 19 | CASTROL GTX Super Multigrade 10W40 |
| 334 | ADDINOL XG 86 | 24 | CASTROL LPX 80 |
| 2 | AGIP 80W90 | 28 | CASTROL Product 482/12 VCI |
| 3 | AGIP ITE 320 | 22 | CASTROL Rustilo 181 |
| 1 | AGIP Super Motor Oil F.1. 15W40 | 20 | CASTROL Rustilo DWX 30 |
| 296 | AK25A | 21 | CASTROL Rustilo DWX 32 |
| 479 | Akvol | 27 | CASTROL Synplex NL G/2 |
| 535 | ALCR 1 | 508 | CASTROL Syntilo RHS |
| 431 | ALYCOL AL PP 93-66 | 25 | CASTROL TAF-X 75W |
| 278 | AMG 10 | 26 | CASTROL TQ Dextron II D-22765 |
| 279 | AMG 10 | 401 | Cat 10W |
| 465 | ANTOL Multidiesel 15W40 | 400 | Cat DEO (CF-4) 10W30 |
| 538 | ARAL ATF 22D | 399 | Cat DEO (CF-4) 15W40 |
| 519 | ARAL EP 85W90 | 396 | Cat GL-5 80W90 |
| 412 | ARAL Isolan 4047 | 397 | Cat TDTO 10W |
| 414 | ARAL Isolan T | 398 | Cat TDTO 30W |
| 413 | ARAL Isolan TT | 192 | chloroform |
| 517 | ARAL Super LL | 292 | CIATIM 201 |
| 459 | ARAL Super Tronic | 293 | CIATIM 203 |
| 4 | ARAL Top Super 15W40 | 529 | Cleencut 20 |
| 472 | ARECA Super Multigrade 15W40 | 326 | CMT O-75 |
| 469 | ARECA Super Multigrade 20W50 | 468 | coolant |
| 180 | Benzine | 473 | CPN 13 |
| 395 | Bio HYDO 10W | 358 | CRODA Dicrol RC 289 |
| 250 | Biobor JF-US Borax | 193 | cyklohexane |
| 29 | Biomil P | 201 | DEA Cronos Super DX 15W40 |
| 471 | BIOPAL 22 BD28A | 498 | DEA Cronos Super TDL 15W40 |
| 30 | Biorol | 202 | DEA Deagear EP-B 85W90 |
| 407 | BIOVIS 80 | 434 | DIESEL Gold Multigrade 20W40 |
| 444 | BOSS 338 | 532 | Diol |
| 439 | BOSS 80W90 | 462 | DIVINOL Multimax HDC3 15W40 |
| 445 | BOSS 824 | 458 | DIVINOL Super 15W40 |
| 440 | BOSS Turbo Tested 15W40 | 460 | DIVINOL Turbo 15W40 |
| 5 | BP Energol HLP 46 | 203 | DOW CORNING Molykate BG 87 Inerta |
| 11 | BP Gear Oil 80W | 531 | Duboterm |
| 6 | BP Motor Oil 15W40 | 411 | DUSSEK CAMPBELL T3902 |
| 7 | BP Motor Oil 15W40 | 433 | ECONOGRADE Supergrade 15W40 |
| 8 | BP Vanellus C3 Extra | 31 | Ejektol V |

| <u>No.</u> | <u>Compound Description</u> | <u>No.</u> | <u>Compound Description</u> |
|------------|-------------------------------|------------|------------------------------------|
| 530 | Elaskon 20 | 283 | IPM-10 |
| 204 | ELF 515 | 35 | ISO 10/15 |
| 205 | ELF Aviation Grease 10 | 196 | isopropanol |
| 448 | ELF Competition S 10W40 | 53 | ITO 100 |
| 32 | Emulzin H | 392 | ITO 200 |
| 416 | ERGON HYVOLT II | 189 | Katol PP |
| 33 | ERO-S | 159 | Kerosene PL 6 |
| 34 | ERO-SB | 511 | Kerosene PS2 |
| 429 | ESSO Essolube MHC 15W40 | 373 | KLUEBER Quietsch-Ex |
| 428 | ESSO Essolube MXH 15W40 | 221 | KLUEBER Topas NB52 |
| 207 | ESSO Turbo Oil 10F | 65 | Koring 201 |
| 206 | ESSO Univis-J13 | 66 | Koring 205 |
| 410 | ESSO Univolt N53 | 385 | lavender oil |
| 409 | ESSO Univolt N55 | 248 | LITH SHCPM |
| 194 | ethanol | 528 | Litol 24 |
| 427 | ethyleneglycol | 135 | Lukoil M50 |
| 386 | eucalyptus oil | 281 | LZMG2 |
| 185 | Extribo Brno Mobil Therm 603 | 137 | M 200 |
| 186 | Extribo Brno Mobil Therm 760N | 289 | M161CHP3 |
| 211 | EXXON Beacon 5127 P290 | 85 | M6W/20D |
| 208 | EXXON Turbo Oil 2380 | 525 | Mavok |
| 209 | EXXON Turbo Oil 2389 | 280 | MGE10A |
| 210 | EXXON Turbo Oil 25 | 54 | MK |
| 505 | Farbest B209 KHC | 284 | MK 8 P |
| 501 | FIRE lamp oil | 285 | MK 8 P |
| 502 | flax-seed oil | 393 | Mobil DTE Oil 13 |
| 195 | freon 113 - Ledon | 394 | Mobil DTE Oil 13M |
| 187 | Fridex Stabil | 320 | MOBIL DTE OIL 24 |
| 466 | FRIDIOL | 443 | MOBIL EAL 224H |
| 467 | FRIDIOL Extra | 223 | MOBIL Gargoyle Arctic oil 540 |
| 338 | FUCHS 27P | 222 | MOBIL Gargoyle Arctic oil 70 |
| 526 | FUCHS Delta Lube VG 46 | 371 | MOBIL Genrex 22 |
| 509 | FUCHS Delta Renep Super | 253 | MOBIL Genrex 26 |
| 408 | FUCHS Renolin E7 | 254 | MOBIL Genrex 26A |
| 157 | Fuel Oil L | 255 | MOBIL Genrex 26B |
| 158 | Fuel Oil L | 229 | MOBIL Grease 22 |
| 249 | GGVE 3 | 224 | MOBIL Jet Oil 254 |
| 327 | GLEITMO 200 | 225 | MOBIL Jet Oil II |
| 147 | GLEITMO 3000 | 226 | MOBIL MCP 319A |
| 328 | GLEITMO 310 | 230 | MOBIL Plex 45 |
| 150 | GLEITMO 352-3 | 227 | MOBIL Super 15W40 |
| 134 | GLEITMO 415 Plus | 449 | MOBIL Super Formula XHP 10W40 |
| 181 | GLEITMO 523 | 228 | MOBIL Super HP 10W40 |
| 324 | GLEITMO 551 | 497 | MOGUL Forte GX 15W40 Multigrade |
| 329 | GLEITMO 582 | 379 | Mogul Green Save |
| 182 | GLEITMO 593 | 524 | MOLEKULAR-TECHNIK Metabond |
| 183 | GLEITMO 605 | 523 | MOLEKULAR-TECHNIK Metabond Natural |
| 325 | GLEITMO 750 | 166 | Molyka-G |
| 179 | GLEITMO 810 | 375 | Motul 15W40 |
| 323 | GLEITMO 871 | 287 | MS14 |
| 322 | GLEITMO 880 Bio | 286 | MS-8P |
| 447 | GOLEM Super 15W50 | 521 | MT-16P |
| 188 | Hitec 580 | 197 | n-heptane |
| 353 | HLP 38F | 452 | NPG COOL 8506 |
| 352 | HLP 46F | 239 | NYCO Grease 37 |
| 359 | HOUGHTON LUBRICOR 954H | 240 | NYCO Grease 43 |
| 220 | HUSQVARNA 2-stroke engine | 232 | NYCO Hydrauncoil FH11 |
| 455 | INA DELTA 5 15W40 | 233 | NYCO Hydrauncoil FH15 |
| 451 | INA DELTA Sint 10W40 | 234 | NYCO Hydrauncoil FH15 |
| 503 | Injekt HKL | 235 | NYCO Hydrauncoil FH16 |

| <u>No.</u> | <u>Compound Description</u> | <u>No.</u> | <u>Compound Description</u> |
|------------|-----------------------------|------------|---|
| 241 | NYCO Nycolube 123 Grade 4 | 39 | OH-HL22 |
| 242 | NYCO Nycolube 8 Grade 2 | 40 | OH-HM32 |
| 243 | NYCO Nycosol 337 | 41 | OH-HM46 |
| 244 | NYCO Nycosol 5 | 42 | OH-HM46 |
| 245 | NYCO Nycosol 55 | 43 | OH-HM68 |
| 236 | NYCO Turbonycoil 210A | 44 | OH-HV32 |
| 237 | NYCO Turbonycoil 500 | 45 | OH-HV46 |
| 238 | NYCO Turbonycoil 525-2A | 55 | oil for shockers |
| 318 | NYNAS NYTRO 10X | 67 | OK-2 A Konkor 101 |
| 319 | NYNAS NYTRO 10X | 68 | OK-3 |
| 415 | NYTRO 10BNX | 515 | OK-40 |
| 140 | O-148 | 69 | OK-5 A Konkor 103 |
| 86 | OA-M2T | 72 | OL-10 |
| 87 | OA-M2T-Mix | 73 | OL-22 |
| 88 | OA-M2T-Mix | 74 | OL-32 |
| 89 | OA-M3AD Madit Special | 75 | OL-46 |
| 90 | OA-M3AD Madit Special | 76 | OL-B1 |
| 91 | OA-M5AD Mogul Special | 77 | OL-B4 |
| 92 | OA-M5ADX Mogul Super Extra | 382 | Oleum bergamottae |
| 93 | OA-M6A | 380 | Oleum citri |
| 94 | OA-M6A | 384 | Oleum foeniculi |
| 96 | OA-M6AD | 383 | Oleum geranii verum |
| 97 | OA-M6AD | 387 | Oleum methae piperitae |
| 98 | OA-M6AD | 381 | Oleum terebinthi |
| 95 | OA-M6AD N | 84 | OLJ-46 |
| 390 | OA-M6ADS II | 78 | OL-N2 |
| 99 | OA-M6ADS II Diesel | 79 | OL-N22 |
| 100 | OA-M6ADS II Plus Diesel | 80 | OL-N32 |
| 101 | OA-M6ADS III | 81 | OL-P0 |
| 102 | OA-M6ADV N | 82 | OL-P4A |
| 103 | OA-M7AD Madit Super | 83 | OL-P8A |
| 105 | OA-M7ADS III | 512 | OL-P8P |
| 104 | OA-M7ADS III N 15W40 | 251 | ÖMV 15W40 |
| 106 | OA-M7ADS IV | 252 | ÖMV 80-85 |
| 107 | OA-M7ADS V | 350 | ÖMV Truck Plus 10W40 |
| 108 | OA-M7ADX Mogul Super Stabil | 46 | ON-1 |
| 109 | OA-M8AD Mogul Super 15W50 | 60 | ON-5V |
| 110 | OA-M8AD Mogul Super 15W50 | 256 | OPTIMOL Long Time PD2 |
| 111 | OA-M8AD Mogul Super 15W50 | 257 | OPTIMOL Opti Temp TT1 |
| 391 | OA-M9ADS | 136 | OR-P2DS |
| 112 | OA-M9ADV N | 145 | OR-P3 |
| 114 | OA-PH 12 | 513 | OR-P4DS |
| 115 | OA-PP 7 | 514 | OSK-68 |
| 113 | OA-PP 85W140H | 36 | OT-H2 |
| 116 | OA-PP13 | 37 | OT-H3 |
| 117 | OA-PP44 | 38 | OT-H4 |
| 118 | OA-PP75 W | 56 | OT-HP3 Hydyn |
| 119 | OA-PP80 | 61 | OT-K12 |
| 120 | OA-PP80 | 62 | OT-K18 |
| 121 | OA-PP80 | 63 | OT-K28S |
| 122 | OA-PP80W90 | 64 | OT-K8 |
| 123 | OA-PP80W90H | 533 | OV-B 25 |
| 124 | OA-PP90 | 534 | OV-B 25 |
| 125 | OA-PP90H | 476 | OV-B28 |
| 520 | OD-11 | 405 | OV-B31 |
| 518 | OD-16 | 454 | PANOLIN HLP Synth 46 |
| 138 | OD-20 | 57 | PAO8 |
| 139 | OD-3 | 496 | PENNZOIL ATF2 Automatic Transmission Fluid |
| 516 | OD-8 | 246 | PENNZOIL Biocycle synthetic 2-stroke racing oil |
| 478 | OE-T | 463 | PENNZOIL PZL Turbo 15W40 |

| <u>No.</u> | <u>Compound Description</u> | <u>No.</u> | <u>Compound Description</u> |
|------------|-----------------------------------|------------|-------------------------------------|
| 336 | PENNZOIL Ultra Turbo 15W40 | 71 | S79 |
| 441 | PERFORMANCE Plus GLX 80W90 | 269 | SHELL 15W50 Multigrade |
| 446 | PETRO Maximum Supreme 10W40 | 263 | SHELL Aero 100 |
| 437 | PETRO Premium | 494 | SHELL Aero Fluid 12 |
| 464 | PETRO Super Plus 15W40 | 491 | SHELL Aero Fluid 3 |
| 438 | PETRO Turbo Canadian Gold 15W40 | 492 | SHELL Aero Fluid 5L-A |
| 146 | Petrol (Gas) Natural BA-95N | 268 | SHELL Aero Fluid ASF-41 |
| 361 | Petrol (Gas) Natural BA-95N | 275 | SHELL Aero GR6 |
| 362 | Petrol (Gas) Natural BA-95N | 264 | SHELL Aero Turbine Oil 3P |
| 363 | Petrol (Gas) Natural BA-95N | 265 | SHELL Aero Turbine Oil 500 |
| 148 | Petrol (Gas) Special BA-91 | 266 | SHELL Aero Turbine Oil 555 |
| 366 | Petrol (Gas) Special BA-91 | 267 | SHELL Aero Turbine Oil 560 |
| 367 | Petrol (Gas) Special BA-91 | 493 | SHELL Alvania EP 2 |
| 368 | Petrol (Gas) Special BA-91 | 262 | SHELL Clavus 15 |
| 369 | Petrol (Gas) Special BA-91 | 484 | SHELL DEL 4610 |
| 370 | Petrol (Gas) Special BA-91 | 420 | SHELL Diala BX |
| 149 | Petrol (Gas) Super BA-96 | 419 | SHELL Diala DX |
| 364 | Petrol (Gas) Super BA-96 | 418 | SHELL Diala GX |
| 365 | Petrol (Gas) Super BA-96 | 483 | SHELL Diala Oil D |
| 475 | Petroleum (Diesel) | 270 | SHELL Fire and Ice 10W40 |
| 153 | Petroleum (Diesel) NM-22 | 274 | SHELL Garia T |
| 151 | Petroleum (Diesel) NM-22 B | 271 | SHELL Helix Standard 15W40 |
| 152 | Petroleum (Diesel) NM-22 B | 260 | SHELL Hydrol DO-32 |
| 154 | Petroleum (Diesel) NM-30 | 487 | SHELL Malleus Compound C |
| 155 | Petroleum (Diesel) NM-35 | 276 | SHELL Retinax A |
| 522 | Petroleum (Diesel) NM-4 A | 277 | SHELL Retinax AM |
| 156 | Petroleum (Diesel) NM-4 B | 272 | SHELL Super 10W40 |
| 510 | Petropal | 261 | SHELL Tellus C10 |
| 162 | PM-AK 1EP | 273 | SHELL Tivela Oil WB |
| 537 | PM-AK 2EP | 288 | SHK |
| 160 | PM-AK2 | 219 | Slick 50 |
| 536 | PM-AG2 | 482 | SMAZKA VNIINP 207 |
| 161 | PM-AKM 2 | 294 | SMAZKA VNIINP-282 |
| 169 | PM-K3S | 360 | SPHINX RL 217 HH3 |
| 481 | PM-KN 2 | 376 | Steam cylinder oil |
| 170 | PM-LA2 | 297 | SUNOCO Forza 15W40 |
| 527 | PM-LKP 00 | 389 | sun-seed oil |
| 171 | PM-LV2EP | 402 | Super HD II 15W40 Energy Conserving |
| 172 | PM-MOGUL LV2-3 | 300 | SWEPCO |
| 173 | PM-NH2 | 442 | SWEPCO 201 Multipurpose Gear Lube |
| 174 | PM-NH2 | 499 | SWEPCO 306 Multigrade 15W40 |
| 175 | PM-PZ0 P | 500 | SWEPCO 306 Multigrade 15W40 |
| 453 | Poly-(chlorotrifluorethylene) oil | 461 | SWEPCO ASDLD Engine Oil 301 15W40 |
| 388 | poppy-seed oil | 298 | SWEPCO Moly Grease 101 |
| 127 | Primol Eko 100K | 299 | SWEPCO Moly Grease 105 |
| 132 | Primol Eko 36H | 477 | Syntol HD 190 |
| 129 | Primol Eko 36P | 190 | Syntol HD 205 |
| 130 | Primol Eko 36P | 178 | T3C |
| 128 | Primol Eko 68L | 141 | T-68 |
| 131 | Primol Eko 68V | 142 | T-68 |
| 133 | Primol Eko 80P | 184 | T6p |
| 47 | Primol Eko HTG40 | 176 | T-A OO |
| 480 | Primol Eko Z | 167 | T-A4 |
| 58 | Pulit 32 CF | 354 | TAp 15V |
| 351 | QUAKER Quakerol 1083 | 143 | TB-32 |
| 59 | R2 | 144 | TB-46 |
| 436 | RAD 2000 | 422 | TECHNOL 2000 |
| 126 | rape-seed oil | 423 | TECHNOL 2000 |
| 259 | Ritzol 100 Li | 425 | TECHNOL 296 |
| 70 | S2 | 426 | TECHNOL 296X |

| <u>No.</u> | <u>Compound Description</u> | <u>No.</u> | <u>Compound Description</u> |
|------------|----------------------------------|------------|---|
| 421 | TECHNOL REGENOL | 311 | TOTAL Mutisis TIR |
| 417 | TECHNOL VS4000 | 247 | TOTAL Rubia Tir XLD 15W40 |
| 424 | TECHNOL Y3000 | 312 | TOTAL Specis CU |
| 316 | Tectyl 506 EH | 507 | TPD 33-078-62 |
| 317 | Tectyl 511 | 165 | T-PH2 |
| 198 | tetrachlormethane | 357 | Trama ITE 320 |
| 495 | TEXACO Cox GX | 258 | Transol 130 |
| 486 | TEXACO Multifak All Purpose EP 2 | 406 | TropArtic All Season 10W40 Energy Conserving |
| 489 | TEXACO Multifak EP 2 | 404 | TropArtic Fuel Economy 10W30 Energy Conserving II |
| 332 | TEXACO Texaflow | 403 | TropArtic Turbo 10W30 Energy Conserving II |
| 488 | TEXACO Ursa Super 20W50 | 377 | TSp 10 |
| 177 | T-G3 | 290 | TSz-9hyp. |
| 213 | TITAN CFE 1040MC | 164 | T-V2 |
| 214 | TITAN CFE 1040MC | 435 | ULTRA 7 15W40 |
| 215 | TITAN CFE 1040MC | 470 | V-22 |
| 217 | TITAN Ekolube CFE | 314 | VALVOLINE 2T-Mix |
| 218 | TITAN Ekolube Motor Unimoly | 315 | VALVOLINE All-Climate 10W40 |
| 212 | TITAN Plantohyd 40N | 346 | VECO CLP 220 |
| 457 | TITAN SK | 339 | VECO CLP 320 |
| 456 | TITAN SK 1540 | 330 | VECO CLP 5 80W90 |
| 216 | TITAN Universal HD 1540 | 341 | VECO soluble |
| 168 | T-K3 | 349 | VECO Syntex 5W50 |
| 282 | TKp | 335 | VECO VD-L 46 |
| 231 | TL-36 | 490 | VESTOIL Diesel 2 |
| 163 | T-N1 | 506 | VK-L |
| 485 | TO ELF | 372 | VNIINP 50-1-4-F |
| 199 | toluene | 474 | washing oil |
| 301 | TOTAL Aero D100 | 504 | washing oil |
| 302 | TOTAL Aero D80 | 355 | WINTERSHALL HLP 46 |
| 304 | TOTAL Aero DM 15W50 | 356 | WINTERSHALL Violan 100 |
| 303 | TOTAL Aero DM 20W60 | 200 | xylene |
| 309 | TOTAL Aero Grease 22 | 295 | ZRO |
| 305 | TOTAL Aero Hydraulic 316 | 6 | 18 point coated carton newsback paper-back side |
| 306 | TOTAL Aero Hydraulic 520 | 5 | 18 point coated carton newsback paper-coated side |
| 307 | TOTAL Aerolub 117 | 216 | 2-deoxy-d-glucose |
| 310 | TOTAL Caloris MS3 | 12 | 42# Release paper-release side |
| 313 | TOTAL Drosera MS2 | 21 | 50# lightweight coated offset paper |
| 308 | TOTAL Jet Turbine 530 | | |