

Routine tests in oil sector

Tests	Standard method		
	ASTM	IP	Other methods
Specific gravity @60/60 °F	1298	160	--
Flash point (open) cleveland °C	93	36	--
Flash point (closed) pensky marten °C	--	34	--
Flash point (open) pensky marten °C	--	35	--
Flash point (open) cleveland °C	93	36	--
Kinematic viscosity cSt at 40,50,100 °C	445	71	--
Pour point °C	97	15	--
Ash % wt	482	4	--
Sulfated ash %	874	163	--
Conradson carbon %wt	189	13	--
Total base no. mg KOH/g sample	2896	276	--
Total base no. mg KOH/g sample	417	--	--
Total acid no. mg KOH/g sample	664	177	--
Determination of gasoline engine crankcase oil fuel dilution % vol	322	23	--
Insoluble in (bentane & toluene)%wt	893	19	--
Electric strength kv	--	295	IEC156
Demulsification no. (by steam) sec	--	19	--
Demulsification no. (Herschel)	1401	--	--
Saponification no. mg KOH/g sample	--	136	--
Iodine value	--	84	--
Sulphur ppm	X-ray	--	--
Water content by karl fischer titration	6304		
Water content % vol	95	74	--
Metals ppm	x-ray, atomic absorption		

Analysis of waste water according to the following standard method

Tests	Standard method		
	ASTM	IP	Other methods
PH	1293	--	--
Total dissolved solids ppm	1125	--	--
Total suspended solids ppm	1888	--	--
Oil and grease ppm	4281	--	--
Chemical oxygen demand (COD) ppm	1252	--	--

**** ASTM :American society for testing materials**

**** IP: Institute of petroleum**

Routine tests in fuel sector

Tests	Standard method		
	ASTM	IP	Other methods
Specific gravity @60/60 °F	1298	160	--
Distillation	86	123	--
Flash point (closed) pensky marten °C	--	34	--
Flash point (open) pensky marten °C	--	35	--
Kinematic viscosity cSt at 40,50,100 °C	445	71	--
Pour point °C	97	15	--
Ash % wt	482	4	--
Conradson carbon %wt	189	13	--
Freezing point °C	2386	16	--
Water content % vol	95	74	--
Sediment by extraction % wt	473	53	--
Sediment and water % vol.	1796	75	--
Aniline point °C	611	2	--
Color	1500	196	--
Corrosion of copper strip	130	154	--
Cetane index	4727	380	--
Electric conductivity ps	2624	274	--
Net specific energy	4529/1405	381	--
Vapour pressure	--	69	--
Unworked, worked Penetration of grease, mm	217	--	--
Dropping point °C	566		--
soap base of grease	Atomic absorption		
Acidity and alkalinity of grease	128	37	--