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Comm 48.02

Chapter Comm 48

PETROLEUM PRODUCTS

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Note: Chapter Ind 10 was renumbered to be chapter ILHR 48, Register, May, 1984, cff. June 1, 1984. Chapter ILHR 48 was renumbered to be chapter Comm 48 under s. 13.93 (2m) (b) 1., Stats., and corrections made under s. 13.93 (2m) (b) 6. and 7., Stats., Register, October, 1996, No. 490.

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Subchapter I — Administration and Enforcement

Comm 48.01 Power and authority. (1) RULE-MAKING AUTHORITY. The department has been granted the power and authority for the promulgation of rules relating to petroleum product grade specifications and the administration and enforcement of the rules.

(2) AUTHORITY TO ENTER. The department has been granted the authority to enter any premises of any manufacturer, vendor, dealer or user of products of petroleum during the regular business hours to determine whether the petroleum product has been inspected in accordance with the rules of the code.

(3) AUTHORITY TO SAMPLE AND TEST. The department has been granted the authority to obtain samples of products of petroleum, at any point within or without this state, for the purpose of testing these products in accordance with the rules of this code.

(4) AUTHORITY FOR ACCESS TO RECORDS. The department has the authority to inspect the records of every person having custody of books or records showing the shipment or receipt of products of petroleum for the purpose of determining the amount of petroleum products shipped or received.

(5) AUTHORITY TO PERFORM INVESTIGATIONS. Any accident or explosion involving products of petroleum which come to the knowledge of the department shall be investigated by the department to determine whether or not there has been a violation of these rules.

(6) AUTHORITY TO PROVIDE ASSISTANCE TO LOCAL AUTHORI-TIES. The department has been granted the authority, upon request of state agencies or local authorities, to assist in the investigation of hazardous situations involving suspected or known products of petroleum.

(7) AUTHORITY TO STOP SALE. Persons with enforcement authority under this chapter shall have the authority to shut down petroleum storage tank systems by the issuance of orders and the disabling with locks under the following conditions:

(a) Immediate shutdown to protect life, safety or health. Petroleum storage systems which contain products which pose an immediate danger to life, safety or health shall be subject to immediate shutdown. Products that cause immediate danger to life, safety, or health include but are not limited to: heating oil or kerosene contaminated with gasoline, or contaminated aircraft fuels.

(b) Immediate shutdown to blend or remove petroleum products or wastes. Petroleum storage systems which contain wastes or products that fail to meet the operational and technical standards of this chapter shall be shut down until a pump out or blend is completed under the supervision of a person with enforcement authority under this chapter. The system may be reopened as soon as the product contained in the tank is verified by a person with enforcement authority under this chapter as meeting this chapter's operational and technical standards.

(c) *Shutdown after long term violation*. Petroleum storage systems containing petroleum products for which there is a continuing code violation under this chapter are subject to shutdown if the following conditions are met:

1. An order is issued with a specific compliance date and a period for compliance;

2. The first reinspection made after the specified compliance date shows that compliance has not been achieved;

3. A second compliance date is set with a period for compliance;

4. Reinspection after the second compliance date shows that compliance is still not achieved; and

5. The owner has not filed a written appeal with the department within 15 days of receiving the order.

History: Cr. Register, July, 1980, No. 295, eff. 8–1–80; emerg. cr. (7), eff. 9–13–95; cr. (7), Register, May, 1996, No. 485, eff. 6–1–96.

Comm 48.02 Petition for variance, penalties and fees. (1) PENALTIES. Pursuant to s. 168.15, Stats., every person who violates any provision of this chapter shall forfeit not less than \$10 nor more than \$100 for each violation. Each day a person fails to comply with any provision of this chapter is a separate violation.

(2) FEES. The department is authorized to collect fees for the inspection of any petroleum product. The fees for inspection shall be in accordance with ch. Comm 2, Fee Schedule, s. Comm 2.41.

(3) REIMBURSEMENT OR CREDIT. If a petroleum product is shipped outside of the state after inspection, the persons making the shipment shall be given credit or be reimbursed by the department for such fees, providing the following conditions are met:

(a) Notice of such shipment out of state is properly acknowledged and sworn to before a notary public.

(b) The notice is given to the department not later than the 20th day of the following month.

(4) NO INSPECTION FEE. No inspection fee shall be charged on a petroleum product that is shipped by a person from storage at a refinery, marine terminal, pipeline terminal, pipeline tank farm or place of manufacture in this state to a person for storage at another refinery, marine terminal, pipeline terminal, pipeline tank farm or place of manufacture in this state.

(5) PETITION FOR VARIANCE. (a) *Procedure.* The department shall consider and may grant a variance to an administrative rule upon receipt of a fee and a completed petition for variance form from the owner, provided an equivalency is established in the petition for variance which meets the intent of the rule being petitioned. The department may impose specific conditions in a petition for variance to promote the protection of the health, safety or welfare of the employees or the public. Violation of those conditions under which the petition is granted constitutes a violation of these rules.

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(b) *Petition processing time*. Except for priority petitions, the department shall review and make a determination on a petition for variance within 30 business days of receipt of all calculations, documents and fees required to complete the review. The department shall process priority petitions within 10 business days.

Note: Copies of the petition for variance (form SB–8) are available from the Division of Safety and Buildings, P.O. Box 7969, Madison, Wisconsin 53707.

History: Cr. Register, July, 1980, No. 295, eff. 8–1–80; am. Register, October, 1984, No. 346, eff. 11–1–84; renum. (5) to be (5) (a) and cr. (5) (b), Register, April, 1985, No. 352, eff. 5–1–85; r. and recr. (1), Register, February, 1986, No. 362, eff. 3–1–86; correction in (2) made under s. 13.93 (2m) (b) 7., Stats., Register, November, 1995, No. 479.

Comm 48.03 Definitions. (1) CERTIFIED PETROLEUM PRODUCT USER. A certified petroleum product user means a user who has inspection procedures certified by the department, has its own storage location and does not receive its petroleum products from a pipeline terminal, marine terminal, pipeline tank farm or bulk plant in this state or from such a facility located in Michigan, Minnesota, Iowa or Illinois that is inspected by the department, and who uses such petroleum products for its own consumption.

(2) DEPARTMENT. The department, as used in this chapter, means the department of commerce.

(3) INSPECTOR. Inspector, as used in this chapter, means a duly authorized petroleum products inspector of the department.

(4) PETROLEUM PRODUCTS. Petroleum products means gasoline, gasoline/alcohol-ether blends, aviation gasoline, automotive gasoline, kerosene, fuel oil, burner fuel oil and diesel fuel oil.

(5) PETROLEUM PRODUCT USER. Petroleum product user means a user who has its own storage location and who does not receive its petroleum products from a pipeline terminal, marine terminal, pipeline tank farm or bulk plant in this state or from such a facility located in Michigan, Minnesota, Iowa or Illinois that is inspected by the department, and who uses such petroleum products for its own consumption.

(6) "Reclaimed oil" means used oil which has been cleaned by cleaning methods used for the primary purpose of removing insoluble contaminants to make the oil suitable for further use. In this subsection, "cleaning method" includes settling, heating, dehydration, filtration or centrifuging.

(7) "Re-refined oil" means used oil on which refining processes have been used to produce high-quality base stock for lubricants. In this subsection, "refining process" includes distillation, hydrotreating, or treatments employing acid, caustic, solvent, clay or other chemicals or a combination of the processes.

History: Cr. Register, July, 1980, No. 295, eff. 8–1–80; cr. (6) and (7), Register, February, 1986, No. 362, eff. 3–1–86.

Subchapter II — Petroleum Product Specifications

Comm 48.04 Gasoline specifications. (1) GASOLINE, AUTOMOTIVE GASOLINE, AND GASOLINE/ALCOHOL-ETHER BLENDS. Gasoline, automotive gasoline, and gasoline/alcohol-ether blends sold or offered for sale in this state shall be visually free of undissolved water, sediment and suspended matter and shall be clear and bright at the ambient temperature or 70° F (21° C), whichever is higher.

(a) *Gasoline*. Any petroleum product designated by name or reference as gasoline shall meet the requirements of Table 48.04–A.

TABLE 48.04-AMINIMUM REQUIREMENTS FOR GASOLINE

Test	Require- ment	ASTM Test Method <u>a/</u>
Distillation temp., deg F (deg C):		D86
Initial boiling point (max.)	131° F (55° C)	
Not less than 10% evaporation	167° F (75° C)	
Not less than 50% evaporation	284° F (140° C)	
Not less than 90% evaporation	392° F (200° C)	
End point (max.)	437° F (225° C)	
Natural residue (max.)	2%	

<u>a</u>/Pursuant to s. 168.07, Stats., the latest revision of the ASTM Book of Standards of the American Society for Testing and Materials shall be used.

(b) *Automotive gasoline*. Any petroleum product designated by name or reference as automotive gasoline shall meet the requirements of Tables 48.04–B1 and 48.04–B2.

(c) *Gasoline/oxygenate blends*. 1. Anhydrous denatured alcohol may be added to gasoline if the original gasoline product meets the requirements of par. (b).

2. The alcohol content for ethyl alcohol may not exceed a concentration of 10 volume percent.

3. The alcohol content for methyl alcohol may not exceed a concentration of one volume percent.

4. Other oxygenated fuels shall be acceptable if the oxygenates are blended at the refinery in amounts allowed by the EPA and the final product conforms to the standard specification for gasoline under par. (b).

(d) *Documentation*. Any person who distributes gasoline products which contain one percent or more by volume of ethyl alcohol or methyl alcohol, or both, shall state on any invoice, bill of lading, shipping paper or other documentation accompanying the shipment used in normal and customary business practices, the type and percentage of alcohol rounded to a whole number or half number equal to or less than the determined percentage.

(2) AVIATION GASOLINE. Any petroleum product designated as aviation gasoline shall meet the requirements of Table 48.04–C.

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REQUIREMENTS FOR AUTOMOTIVE GASOLINE								
-	Ga							
Test	С	D	Е	ASTM Test Method a/				
Distillation temperature, deg F (deg C):				D86				
10% Evaporation (max.)	140° F (60° C)	131° F (55° C)	122° F (50°C)					
50% Evaporation (min.)	170° F (77° C)	170° F (77° C)	170° F (77° C)					
50% Evaporation (max.)	240° F (116° C)	235° F (113° C)	230° F (110° C)					
90% Evaporation (max.)	365° F (185° C)	365° F (185° C)	365° F (185° C)					
End point (max.)	437° F (225° C)	437° F (225° C)	437° F (225° C)					
Residue (max.)	2%	2%	2%					
Vapor/Liquid Ratio				D2533				
Test temperature	124° F (51° C)	116° F (47° C)	105° F (41° C)					
Vapor/liquid (max.)	20	20	20					
Reid Vapor Pressure								
(psi. max.)	11.5	13.5	15.0	D323 or D2551				
Lead Content								
(g/gal. max.)				D2547				
Unleaded	.05	.05	.05	(Below 0.5 g/gal. use				
Conventional	*	*	*	D2547, D2599 or D3237)				
Corrosion (copper strip) (max.)	No. 1	No. 1	No. 1	D130				
Existent gum (mg/100 ml, max.)	5	5	5	D381				
Sulfur (weight, % max.)				D1266 or D2622				
Leaded	.20	.20	.20					
Unleaded	.10	.10	.10					
Antiknock Index_b/				D2700, D2885 or D2699				

TABLE 48.04-B1 REQUIREMENTS FOR AUTOMOTIVE GASOLINE

* Maximum amount approved by the Federal Environmental Protection Agency (EPA). <u>a</u>/ Pursuant to s. 168.07, Stats., the latest revision of the ASTM Book of Standards of the American Society for Testing and Materials shall be used. <u>b</u>/ The antiknock index equals the sum of the research octane number (RON) and the motor octane number (MON) divided by 2 as follows:

Antiknock index= $\frac{\text{RON} + \text{MON}}{2}$ 2

Note: Under an emergency situation, such as a shortage of gasoline, the department may accept the requirements established in the ASTM Emergency Standard Specifications for Automotive Gasoline (ES 5–79).

TABLE 48.04–B2							
WISCONSIN SCHEDULE OF SEASONAL VOLATILITY CLASSES							

Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
Е	Е	E/D	D	D/C	С	С	С	С	C/D	D/E	E

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REQUIREMENTS FOR AVIATION GASOLINES <u>a</u>/								
Minimum Grade Requirements	Grade 80	G	rade 100	Grade 100LL	ASTM Test Method <u>b/</u>			
Knock value, min. octane number, lean rating	80		100	100	D 2700 <u>c</u> /			
Knock value, min. octane number, rich rating	87	isooctane tetraethy	e plus 1.28 ml of llead per gallon	isooctane plus 1.28 ml o tetraethyllead per gallor	of D 909			
Color	red		green	blue	D 2392			
Dye content:								
Permissible blue dye, max. mg/gal	0.5		4.7	5.7				
Permissible yellow dye, mg/gal	none		5.9	none				
Permissible red dye, max. mg/gal	8.65		none	none				
Tetraethyllead <u>d</u> , max. ml/gal	0.5		4.0	2.0	D 2547, D2599 or D3341			
Net heat of combustion, min. Btu/lb	18,720		18,720	18,720	D 1405 or D3338			
Minimum Grade Requirements	Requiremen	ASTM Test Method ^{b/}						
Distillation temperature, deg F (deg C):								
10% evaporated, max. temp.			167 (75)		D 86			
40% evaporated, min. temp.			167 (75)					
50% evaporated, max. temp.			22	21 (105)				
90% evaporated, max. temp.			27					
Final boiling point, max. deg F (deg C)			338 (170)					
Sum of 10 and 50% evaporated temperatures, r	nin. deg F	(deg C)	30	07 (135)				
Distillation recovery, min. percent				97				
Distillation residue, max. percent								
Distillation loss, max. percent								
Acidity of distillation residue			shall not be acid		D 1093			
Vapor pressure, max. lb.			7.0		D 323 or D 2551			
Copper strip corrosion, max.			No. 1		D 130			
Potential gum (5 h aging gum), max. mg/100 ml			6		D 873			
Visible lead precipitate e/, max. mg/100 ml			3		D 873			
Sulfur, wt. max., percent			0.05		D 1266 or D 2622			
Freezing point, max. deg F (deg C)	-7	D 2386						
Water reaction	volume change	D 1094						
Permissible antioxidants ^{f/} , max. lb/1000 bbl (4		4.2						

TABLE 48.04-C CACOLDEC /

a/Aviation gasoline shall be free from water, sediment and suspended matter. The odor of the fuel shall not be nauseating or irritating. No substances of known dangerous toxicity under usual conditions of handling and use shall be present. b/Pursuant to s. 168.07, Stats., the latest revision of the ASTM Book of Standards of the American Society for Testing and Materials shall be used.

c/The knock values shown in Table 48.04-C represent aviation method ratings. Motor octane ratings obtained by ASTM method D 2700 shall be converted to aviation

g The know and shall be added in the form of an antiknow mixture containing not less than 61 weight percent of tetraethyllead and sufficient ethylene dibromide to provide 2 bromine atoms per atoms of lead. The balance shall contain no added ingredients other than kerosene, and an approved inhibitor, and blue dye. e/The visible lead precipitate requirement applies only to leaded fuels. f/Permissible antitoxidants are as follows:

N, N'-diisopropyl-para-phenylenediamine N, N'-di-secondary-butyl-para-phenylenediamine 2, 4-dimethyl-6-tertiary-butylphenol

2, 6—ditertiary butylphenol
2, 6—ditertiary butylphenol
2, 6—ditertiary butylphenol
3, 6—ditertiary butylphenol
4, 6—tiretiary butylphenol
10 to 15% o-tertiary butylphenol, and 28% max monomethyl and dimethyl tertiary butylphenols. These inhibitors may be added to the gasoline senarately or in combination in total concentration pot to exceed 4.2 h of inhibitor (not including weight of selvent) per 1000 bbl (42 cal) separately or in combination, in total concentration not to exceed 4.2 lb of inhibitor (not including weight of solvent) per 1000 bbl (42 gal).

History: R. and recreate from Ind 10.03, Register, July, 1980, No. 295, eff. 8–1–80; Table 10.04–B1 reprinted to correct error, Register, September, 1980, No. 297; r. and recr. (1) (c) and Table 48.04–B1, cr. (1) (d), Register, February, 1986, No. 362, eff. 3–1–86.

Any petroleum product designated by name or reference as "kerosene" shall meet the minimum requirements specified in Table 48.05.

Comm 48.05 Minimum kerosene specifications.

Property	Limit	ASTM TEST Method ^{a/}
Appearance:		
Color min	116	D 156
	+10	D 150
Composition:		
Mercaptan sulfur, ppm max.	3 <u>b/</u>	D 3227
Sulfur, weight % max.		D 1266 or D 2622
No. 1–K	0.04 max.	D 1266 or D 2622
No. 2–K	0.30 max.	D 1266 or D 2622
Volatility:		
Distillation, temperature, deg F (deg) (C)		D 86
10% recovered, max.	401 (205)	
Final boiling point, max.	572 (300)	
Flash point, deg F (deg C)	100 (38)	D 56 or D 3828 (D 56 shall be used in cases of dispute)
Corrosion:		
Corrosion, 3 h at 212°F (100°C), max.	No. 3	D 130

TABLE 48.05 CHEMICAL AND PHYSICAL REQUIREMENTS FOR KEROSENE-K-1 and K-2

a/Pursuant to s. 168.07, Stats., the latest revision of the ASTM Book of Standards of the American Society for Testing and Materials shall be used. \overline{b} /The mercaptan sulfur determination may be waived if the fuel is considered sweet by the Doctor test.

History: R. and recr. from Ind 10.03, Register, July, 1980, No. 295, eff. 8–1–80; am. table, Register, May, 1984, No. 341, eff. 6–1–84; r. and recr. table, Register, February, 1986, No. 362, eff. 3–1–86.

Comm 48.06 Fuel oil specifications. Any petroleum product designated by name as No. 1 or No. 2 fuel oil shall meet the requirements specified in Table 48.06.

TABLE 48.06							
REQUIREMENTS FOR FUEL OILS <u>a</u> /							

	-		
	Grade of Fuel Oil		
Test	No. 1	No. 2	ASTM Test Method <u>b/</u>
Flash point, deg F (deg C), min.	100 (38)	100 (38)	D 93 or D 56 (D 93 shall be used in cases of dispute)
Pour point, deg F (deg C), max.	0 (-18) <u>c</u> /	20 (-6) <u>c/</u>	D 97
Water and sediment, vol %, max.	0.05	0.05	D 1796
Carbon residue on 10% bottoms, % max.	0.15	0.35	D 524
Distillation temperatures, deg F (deg C)			D 86
10% point, max.	420 (215)	—	
90% point, min.	—	540 (282) <u>d</u> /	
90% point, max.	550 (288)	640 (338)	
Saybolt Viscosity ^{e/}			
Universal at 38°C (100°F)			D 2161
Minimum	—	(32.6)	
Maximum	—	(37.9)	
Kinetic at 38°C (100°F)			D 445
Minimum	—	2.0	
Maximum	—	3.6	
Gravity, deg API, min.	35	30	D 287
Specific gravity 60/60° F, max.	(0.8499)	(0.8762)	
Corrosion (copper strip), max.	No. 3	No. 3	D 130
Sulfur, percent, max.	0.5	0.5	D 129 or D 1552 or D 2622 or D 1266 (No. 1 grade only)

a/It is the intent of these classifications that failure to meet any requirement of a given grade does not automatically place an oil in the next lower grade unless in fact it

meets all requirements of the lower grade. b/Pursuant to s. 168.07, Stats., the latest revision of the ASTM Book of Standards of the American Society for Testing and Materials shall be used. c/Lower or higher pour points may be specified whenever required by conditions of storage or use. When pour point less than 0° F (-18° C) is specified, the minimum

90% distillation temperature does not apply. <u>d</u>/Seasonal blending to accommodate cold weather operation may be necessary and in such cases the minimum 90% distillation temperature requirement for No. 2 does not apply. v/Viscosity values in parenthesis are for information only and not necessarily limiting

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History: R. and recr. from Ind 10.01 and 10.02, Register, July, 1980, No. 295, eff. 8–1–80; am. table, Register, May, 1984, No. 341, eff. 6–1–84; r. and recr. table, Register, February, 1986, No. 362, eff. 3–1–86.

Comm 48.07 Diesel fuel oils. Any petroleum product designated as No. 1 or No. 2 diesel fuel shall meet the requirements specified in Table 48.07.

TABLE 48.07^{a/,b/} **REQUIREMENTS FOR DIESEL FUEL OILS**

	Grade of Diesel Fuel Oil		
Test	No. 1-D	No. 2-D	ASTM Test Method <u>c/</u>
Flash point, deg F (deg C), min.	100 (38)	100 (38)	D 93 or D 56 (D 93 shall be used in cases of dispute)
Water and sediment, vol. %, max.	0.05	0.05	D 1796
Distillation temperatures, deg F (deg C)			D 86
90% point, min.	_	540 (282) <u>d</u> /	
90% point, max.	550 (288)	640 (338)	
Viscosity			D 445
Kinematic, cSt ^{e/} at 40°C			
Minimum	1.3	1.9	D 2161 ^{f/}
Maximum	2.4	4.1	
Saybolt, SUS at 100°F			
Minimum	—	32.6	D 2161
Maximum	34.4	40.1	
Corrosion (copper strip), max.	No. 3	No. 3	D 130
Sulfur, weight, percent	0.5	0.5	D 129
Cetane number <u>g</u> /	40	40	D 613

a/To meet special operating conditions, modifications of individual limiting requirements may be agreed upon between purchaser, seller, and manufacturer. b/The values stated in SI units are to be regarded as the standard. The values in U.S. customary units are for information only. c/Pursuant to s. 168.07, Stats., the latest revision of the ASTM Book of Standards of American Society for Testing and Materials shall be used.

d/Seasonal blending to accommodate cold weather operation may be necessary and in such cases the minimum 90% distillation temperature requirement for No. 2–D does not apply.

 $e/1 \text{ cSt} = 1 \text{ mm}^2/$

group - Hinn's.
 fcConversion of kinetic viscosity to saybolt universal viscosity.
 g/Where cetane number by method D 613 is not available, ASTM method D 976, Calculated Cetane Index of Distillate Fuels, may be used as an approximation.
 Where there is disagreement, method D 613 shall be used in cases of dispute.

History: Cr. Register, July, 1980, No. 295, eff. 8–1–80; r. and recr. table, Register, February, 1986, No. 362, eff. 3–1–86.

Comm 48.08 Octane posting. (1) The minimum octane rating of all automotive gasoline products offered for sale to consumers shall be posted on the gasoline dispenser. The posted octane shall be the antiknock index rounded off to a whole number or a half number equal to or less than the determined octane rating.

(2) The posting shall be as specified in Public Law No. 95-297, entitled "The Petroleum Marketing Practices Act" and contained in 15 USC 2822 Sec. 202, and this chapter.

Note: The Federal Trade Commission (FTC), Title 16 Commercial Practices, Chapter 1, Part 306, establishes requirements for octane certification and posting. The FTC rules on label specifications are printed in the Appendix.

History: Cr. Register, July, 1980, No. 295, eff. 8–1–80; r. and recr. Register, February, 1986, No. 362, eff. 3–1–86.

Subchapter III — Inspection Procedures

Comm 48.09 Inspection procedures. (1) INSPECTION OF PETROLEUM PRODUCTS. All petroleum products imported into and received in this state shall be sampled by the department prior to being unloaded, sold, offered for sale or used.

(a) Exceptions. The inspection of petroleum products does not apply in the following situations:

1. Petroleum products previously inspected by the department at the refinery or at a marine or pipeline terminal within or without the state.

2. Where the department permits unloading of ships or boats due to an emergency declared by the coast guard or where a permit has been granted by the department.

3. To users of petroleum products which have inspection procedures certified by the department.

(2) NOTIFICATION FOR INSPECTION. (a) The recipient of all petroleum products received on Monday through Friday shall notify the department between the hours of 7:45 a.m. and 4:30 p.m. The department shall be notified of any petroleum products received after 4:30 p.m. or received on a Saturday, Sunday or any legal holiday, between the hours of 7:45 a.m. and 10:00 a.m. of the next regular working day.

(b) If a person transfers one grade of a petroleum product into a container with another grade of petroleum product, the entire commingled product shall be deemed uninspected and the department shall be notified.

(c) If no sample is taken by an inspector within the time limit specified, the receiver or commingler shall take a true sample of not less than 8 ounces in accordance with the procedures per sub. (3) (b).

(d) After proper notification, the department shall take a sample of the petroleum product in accordance with the following schedule:

<u>Time of notification</u>	<u>Time of sampling</u>
by recipient	by department
Before 11:45 a.m.	11:45 a.m. – 4:30 p.m. of same day

11:45 a.m. - 4:30 p.m. Before 11:45 a.m. of following day

Note: Saturdays, Sundays and legal holidays are not considered regular business days

(3) SAMPLING PROCEDURES. A true sample of at least 8 ounces shall be taken from every shipment of petroleum products, including commingled products, imported into and received in this state.

(a) Department procedures. The department shall inspect each sample of petroleum product and perform the tests, deemed necessary, in accordance with the specifications as outlined in this code.

1. The department shall issue an inspection certificate if the petroleum product meets the specifications set forth in this code.

2. If the petroleum product does not meet the standards specified in this code, the department will notify the person for whom the inspection was made that the petroleum product shall not be http://docs.legis.wisconsin.gov/code/admin_code DEPARTMENT OF COMMERCE

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sold, used or removed from storage until compliance with the standards are satisfied.

(b) *Sampling procedures by others*. Recipients of petroleum products and users of petroleum products which have been certified by the department shall comply with the following sampling procedures.

1. The sample shall be taken in the presence of a disinterested person.

2. The petroleum sample shall be placed in a clean container which can be tightly closed.

3. The container holding the sample shall be identified with the following information:

a. Means of conveyance (i.e., from a pipeline, tank car);

b. Type of original container;

c. Product name;

d. Content quantity.

4. Upon request, the sample taken shall be held for delivery to the inspector.

History: Cr. Register, July, 1980, No. 295, eff. 8-1-80.

Comm 48.10 Labeling of dispensers and containers. (1) DISPENSING EQUIPMENT. (a) *General.* All devices dispensing petroleum products at filling stations, garages or other places where petroleum products are sold or offered for sale shall be marked with a conspicuous label visible on both faces of the dispensing device indicating the name and grade of the petroleum product. No label may be placed so that the text is sideways or upside down.

(b) Oxygenated gasoline dispensing device labels. 1. A device that dispenses a gasoline–ethanol fuel blend of more than 2% by volume of ethanol shall be labeled with the volume percent of ethanol at all times the product is offered for retail sale.

2. A device that dispenses a reformulated gasoline, as defined in s. 285.37 (1), Stats., that contains an oxygenate other than ethanol shall be labeled with the identity of the oxygenate at all times the product is offered for retail sale. If the reformulated gasoline contains multiple oxygenates, the label shall identify the predominate oxygenate based upon volume percent.

Note: Reformulated gasoline is defined in s. 285.37 (1), Stats., as gasoline formulated to reduce emissions of volatile organic compounds and toxic air pollutants as provided in 42 USC 7545 (k) (5). The addition of an oxygenate to a fuel alone does not create a reformulated gasoline, other criteria specified in the law must also be met.

3. The label shall be placed on the face of the dispenser next to the name and grade of the product being dispensed.

4. The label shall be contrasting in color to the dispenser and have lettering using not less than one–half inch high letters with a stroke of not less than one eighth inch in width.

5. The label shall identify the oxygenate as either "Ethanol", "Methyl Tertiary Butyl Ether (MTBE)", "Ethyl Tertiary Butyl Ether (ETBE)", "Tertiary Amyl Methyl Ether (TAME)", "Tertiary Butyl Alcohol (TBA)", or as an other oxygenate name approved by the bureau of petroleum.

6. A label shall state that the product being dispensed "Contains" followed by the approved name for the oxygenate.

7. A label shall be conspicuous and legible to a customer when viewed from the driver's seat of a motor vehicle that is located within 6 feet of the dispensing device.

8. The label shall be capable of withstanding extremes of weather conditions for at least one year and shall be resistant to gasoline, oil, grease, solvents, detergents, and water. When damaged so that they are not legible, labels shall be replaced.

9. If a dispenser remains unlabeled after the expiration of orders issued by the department for labeling, and the owner does not file a written appeal within 15 days of receiving the order, the department shall stop the sale of the product in accordance with s. Comm 48.01 (7).

(2) STORAGE CONTAINERS. All containers for storing gasoline shall be metal or materials meeting the standards approved by the department and all containers shall be labeled and colored red. These requirements do not apply to the following:

(a) *Exception No. 1.* Fuel supply tanks connected to internal combustion engines, appliances or any device consuming the fuel.

(b) *Exception No.* 2. Any container holding one gallon or less of a petroleum product, which was filled originally by a manufacturer or a packager, and which complies with the federal standards for packaging and labeling.

(c) *Exception No. 3.* Kerosene, diesel fuel, burner fuel oils and similar products of petroleum with a flash point of 100° F (38° C) or greater shall not be stored in any container colored red.

(d) *Exception No. 4*. Containers having a capacity of 275 gallons or more.

(3) MISLABELING. No person shall receive, unload, use, sell or offer for sale any petroleum products which are misidentified as to name or grade.

(a) *Reclaimed oils*. Any person representing, advertising, promoting for sale, offering for sale or selling any lubricating oil which has previously been used shall identify the product as such. The label shall contain the appropriate and descriptive words of "reclaimed, rerefined, recleaned or reconditioned used lubricating oil."

(4) CLEANING OF DISPENSING EQUIPMENT. Any pipeline, hose, pump or metering device used for dispensing petroleum products shall be properly flushed and cleaned before dispensing a dissimilar petroleum product.

History: Cr. Register, July, 1980, No. 295, eff. 8–1–80; renum. (1) (a) to be (4), cr. (1) (a), Register, May, 1984, No. 341, eff. 6–1–84; reprinted to correct error in (1) (a), Register, October, 1984, No. 346; r. and recr. (1), Register, February, 1986, No. 362, eff. 3–1–86; emerg. r. and recr. (1) (b), r. (1) (c), eff. 9–13–95; r. and recr. (1) (b), r. (1) (c), Register, May, 1996, No. 485, eff. 6–1–96; correction in (1) (b) 2. made under s. 13.93 (2m) (b) 7., Stats.

Comm 48.11 Records. (1) DEPARTMENT RECORDS. The department shall keep records of each inspection made showing:

(a) Time and place of each inspection;

(b) Number of 50 gallon barrels inspected;

(c) Number of gallons contained in the original container;

(d) Amount of fees;

(e) Product name of petroleum product inspected;

(f) Name and address of person for whom inspection is made.

(2) TRANSPORTATION RECORDS. Every person transporting petroleum products shall maintain records showing the shipment or receipt of petroleum products. The department shall have free access to the records for the purpose of determining the amount of petroleum products shipped or received.

(3) RECEIPT RECORDS. Every person receiving petroleum products shall maintain records, together with bills of lading, waybills and other pertinent documents, for at least 3 years, unless approval to the contrary is obtained from the department in writing. The department shall have free access to the records for the purpose of determining the amount of petroleum products shipped or received.

History: Cr. Register, July, 1980, No. 295, eff. 8-1-80.

ILHR 48.12 Scope. History: Cr. Register, June, 1979, No. 282, eff. 7–1–79; r. Register, October, 1996, No. 490, eff. 11–1–96.

ILHR 48.13 Eligibility. History: Cr. Register, June, 1979, No. 282, eff. 7–1–79; renum. from Ind 10.14, Register, July, 1980, No. 295, eff. 8–1–80; r. Register, October, 1996, No. 490, eff. 11–1–96.

ILHR 48.14 Application for certification. History: Cr. Register, June, 1979, No. 282, eff. 7–1–79; renum. from Ind 10.15, Register, July, 1980, No. 295, eff. 8–1–80; correction in (1) made under s. 13.93 (2m) (b) 7, Stats., Register, November, 1995, No. 479; **r.** Register, October, 1996, No. 490, eff. 11–1–96.

ILHR 48.15 Laboratory test procedures. History: Cr. Register, June, 1979, No. 282, eff. 7–1–79; renum. from Ind 10.16, r. and recr. (1) and am. (2) (a),

11-1-96.

ILHR 48.18 Denial of certification or application. History: Cr. Register, June, 1979, No. 282, eff, 7–1–79; renum, from Ind 10, 19, Register, July, 1980, No. Register, July, 1980, No. 295, eff. 8-1-80; r. Register, October, 1996, No. 490, eff.

295, eff. 8-1-80; r. Register, October, 1996, No. 490, eff. 11-1-96.

ILHR 48.16 Notification of certification. History: Cr. Register, June, 1979, No. 282, eff. 7–1–79; renum. from Ind 10.17, Register, July, 1980, No. 295, eff. 8-1-80; r. Register, October, 1996, No. 490, eff. 11-1-96.

ILHR 48.17 Reissuance of certification. History: Cr. Register, June, 1979, No. 282, eff. 7-1-79; renum. from Ind 10.18, Register, July, 1980, No. 295, eff. 8-1-80; r. Register, October, 1996, No. 490, eff. 11-1-96.

ILHR 48.19 Duties and responsibilities of certified petroleum product users. History: Cr. Register, June, 1979, No. 282, eff. 7-1-79; renum. from Ind 10.20, Register, July, 1980, No. 295, eff. 8-1-80; r. Register, October, 1996, No. 490, eff. 11-1-96.

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ILHR 48.20 Suspension or revocation of certification. History: Cr. Reg-ister, June, 1979, No. 282, eff. 7–1–79; renum. from Ind 10.21, Register, July, 1980, No. 295, eff. 8-1-80; r. Register, October, 1996, No. 490, eff. 11-1-96.

APPENDICES

Appendix A—Aviation Gasoline Conversion Table Appendix B—Label Specifications Appendix C—ASTM Test Methods

APPENDIX A

AVIATION GASOLINE CONVERSION TABLE CONVERSION FROM MOTOR METHOD RATINGS TO CORRESPONDING AVIATION METHOD RATINGS<u>a</u>/

Motor Octane Number	0.0	0.2	0.4	0.6	0.8
75	73.59	73.81	74.04	74.27	74.49
76	74.72	74.95	75.17	75.40	75.63
77	75.85	75.08	76.30	76.53	76.75
78	76.98	77.20	77.43	77.65	77.88
79	78.10	78.33	78.55	78.77	79.00
80	79.22	79.44	79.67	79.89	80.11
81	80.33	80.55	80.78	81.00	81.22
82	81.44	81.66	81.88	82.10	82.32
83	82.55	82.77	82.99	83.21	83.43
84	83.65	83.86	84.08	84.30	84.52
85	84.74	84.96	85.18	85.40	85.61
86	85.83	86.05	86.27	86.48	86.70
87	86.92	87.13	87.35	87.57	87.78
88	88.00	88.22	88.43	88.65	88.86
89	89.08	89.29	89.51	89.72	89.94
90	90.15	90.37	90.58	90.79	91.01
91	91.22	91.43	91.65	91.86	92.07
92	92.29	92.50	92.71	92.92	93.13
93	93.35	93.56	93.77	93.98	94.19
94	94.40	94.61	94.82	95.04	95.25
95	95.46	95.67	95.88	96.09	96.29
96	96.50	96.71	96.92	97.13	97.34
97	97.55	97.76	97.96	98.17	98.38
98	98.57	98.74	98.91	99.08	99.26
99	99.43	99.60	99.78	99.95	100.44
100	101.07	101.60	102.14	102.67	103.21
101	103.74	104.27	104.81	105.34	105.88
102	106.41	106.94	107.48	108.01	108.55
103	109.08	109.61	110.51	110.68	111.22
104	111.75	112.28	112.82	113.35	113.89
105	114.42	114.95	115.49	116.02	116.56
106	117.09	117.62	118.16	118.69	119.23
107	119.76	120.29	120.83	121.36	121.90
108	122.43	122.96	123.50	124.03	124.57
109	125.10	125.63	126.17	127.70	127.24
110	127.77	128.30	128.84	129.37	129.91

Equations: Correlation equations—reference report "Aviation Gasoline Antiknock Quality by ASTM Methods D 614 and D 357," June 21, 1966, Fig. 4. Less than 93 motor performance number (97.89 motor octane number).

Aviation performance number = -5.6 + 1.08 (motor performance number).

Greater than 93 motor performance number.

Aviation performance number = 12.07 + 0.89 (motor performance number).

Conversion equations-

Below 100: performance number = 2800/(128 – octane number)

Above 100: performance number = 100 + (octane number - 100)3

a/ Octane numbers in *italics*, performance numbers in "regular" type.

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Comm 48.11

APPENDIX B

B 48.08 (2) OCTANE LABELS. The following is a reprint of the FTC rules on octane labels:

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FEDERAL TRADE COMMISSION'S RULING ON OCTANE CERTIFICATION AND POSTING

LABEL SPECIFICATIONS

B 306.11 Labels. All labels must meet the following specifications: (a) Layout. The label is 3'' wide x 2-1/2'' long. The illustrations appearing at the end of this rule are prototype labels that demonstrate the proper layout. Helvetica type is used throughout except for the octane rating number which is in Franklin gothic type. Spacing of the label is 1/4'' between the top border and the first line of text, 1/8'' between the first and second line of text, 1/4'' between the octane rating and the line of text above it. All text and numerals are centered within the interior borders.

(b) *Type size and setting.* The Helvetica series is used for all numbers and letters with the exception of the octane rating number. Helvetica is available in a variety of phototype setting systems and by linotype. The line "MINIMUM OCTANE RAT-ING" is set in 12 point Helvetica Bold, all capitals, with

letterspace set at 12-1/2 points. The line "(R+M)/2 METHOD" is set in 10 point Helvetica. Bold, all capitals, with letterspace set at 10-1/2 points. The octane number is set in 96 point Franklin gothic condensed with 1/8" space between the numbers.

(c) *Colors.* The basic color on all labels is process yellow. All type is process black. All borders are process black. Both colors must be non-fade.

(d) *Contents*. The contents are shown in the illustration. The proper octane rating for each gasoline must be shown. No marks or information other that than called for by this rule may appear on the label.

(e) *Special label protection*. All labels must be capable of withstanding extremes of weather conditions for a period of at least one year. They must be resistant to gasoline, oil, grease, solvents, detergents, and water.

(f) *Illustrations of labels*. Labels should meet the specifications in this section, and should look like these examples, except the black print should be on a yellow background.

B 48.10 (1) (b) Label orientation. The following diagrams illustrate the correct and incorrect placement of labels on the dispensing device:



Correct Placement



Incorrect Placement



Incorrect Placement

http://docs.legis.wisconsin.gov/code/admin_code WISCONSIN ADMINISTRATIVE CODE

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APPENDIX C

ASTM TEST METHODS

- D 56 Test for Flash Point by Tag Closed TesterD 86 Test for Distillation of Petroleum Products
- D 93 Test for Flash Point by Pensky–Martens Closed Tester
- D 97 Test for Pour Point of Petroleum Oils
- D 129 Test for Sulfur in Petroleum Products by the Bomb Method
- D 130 Test for Detection of Copper Corrosion from Petroleum Products by the Copper Strip Tarnish Test
- D 156 Test for Saybolt Color of Petroleum Products (Saybolt Chromometer Method)
- D 287 Test for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method)
- D 323 Test for Vapor Pressure of Petroleum Products (Reid Method)
- D 381 Test for Existent Gum in Fuels by Jet Evaporation
- D 524 Test for Ramsbottom Carbon Residue of Petroleum Products
- D 613 Test for Ignition Quality of Diesel Fuels by the Cetane Method
- D 873 Test for Oxidation Stability of Aviation Fuels (Potential Residue Method)
- D 909 Test for Knock Characteristics of Aviation Fuels by the Supercharge Method
- D 1093 Test for Acidity of Distillation Residues of Hydrocarbon Liquids
- D 1094 Test for Water Reaction of Aviation Fuels
- D 1266 Test for Sulfur in Petroleum Products (Lamp Method)
- D 1405 Test for Estimation of Net Heat of Combustion of Aviation Fuels
- D 1552 Test for Sulfur in Petroleum Products, High-Temperature Method
- D 1796 Test for Water and Sediment in Crude Oils and Fuel Oils by Centrifuge
- D 2386 Test for Freezing Point of Aviation Fuels
- D 2392 Test for Color of Dyed Aviation Gasolines
- D 2533 Test for Vapor-Liquid Ratio of Gasoline
- D 2547 Test for Lead in Gasoline, Volumetric Chromate Method
- D 2551 Test for Vapor Pressure of Petroleum Products (Micromethod)
- D 2599 Test for Lead in Gasoline by X-Ray Spectrometry
- D 2622 Test for Sulfur in Petroleum Products (X-ray Spectrographic Method)
- D 2699 Test for Knock Characteristics of Motor Fuels by the Research Method
- D 2700 Test for Knock Characteristics of Motor and Aviation Type Fuels by the Motor Method
- D 2885 Test for Research and Motor Method Octane Ratings Using On-line Analyzers
- D 3227 Test for Mercaptan Sulfur in Gasoline, Kerosene, Aviation Turbine and Distillate Fuels (Potentiometric Method)
- D 3237 Test for Lead in Gasoline by Atomic Absorption Spectrometry
- D 3338 Test for Estimation of Heat of Combustion of Aviation Fuels
- D 3341 Test for Lead in Gasoline (Iodine Monochloride Method)
- D 3828 Test for Flash Point by Setaflash Closed Tester