

Date

2025-06-27

Reference

2024/1335

Scope of accreditation

Testing according to SS-EN ISO/IEC 17025:2018

Saybolt Sweden AB

Göteborg

Accreditation number

1352

Laboratoriet

A001381-001

Chemical analysis

Technical area	Parameter	Method	Technique	Measure	Material	Flex	Type of flex	Field	Note
Fuel analysis	Acidity	ASTM D3242	Titration	0,001-0,100 mg KOH/g	Kerosene	Yes	1	No	
		IP 354	Titration	0,001-0,100 mg KOH/g	Kerosene	Yes	1	No	
	Appearance	ASTM D4176			Gas oil	Yes	1	No	Proc 1
					Gasoline	Yes	1	No	Proc 1
					Kerosene	Yes	1	No	Proc 1
				1-6	Gas oil	Yes	1	No	Proc 2
				1-6	Gasoline	Yes	1	No	Proc 2
				1-6	Kerosene	Yes	1	No	Proc 2
	Aromater, di	ASTM D6379	HPLC	0,1 -7,0 % vol	Kerosene	Yes	1	No	
			HPLC	0,1 -7,0 % wt	Kerosene	Yes	1	No	
		SS-EN 12916	HPLC	0,1 - 10,0 % wt	Gas oil	Yes	1	No	
	Aromater, mono	ASTM D6379	HPLC	10,0 -25,0 % wt	Kerosene	Yes	1	No	
			HPLC	9,0 - 24,0 % vol	Kerosene	Yes	1	No	
		SS-EN 12916	HPLC	0,1 - 30,0 % wt	Gas oil	Yes	1	No	
	Aromater, poly	SS-EN 12916	HPLC	0,1 - 12,0 % wt	Gas oil	Yes	1	No	
	Aromater, total	ASTM D6379	HPLC	10,0 -32,0 % wt	Kerosene	Yes	1	No	
			HPLC	9,0 -30.0 % vol	Kerosene	Yes	1	No	
		SS-EN 12916	HPLC	0,1 - 42,0 % wt	Gas oil	Yes	1	No	

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Fuel analysis	Aromater, tri+	SS-EN 12916	HPLC	0,1 - 2,0 % wt	Gas oil	Yes	1	No	
	Aromatics	ASTM D1319		5-99 % vol	Gas oil	Yes	1	No	
				5-99 % vol	Gasoline	Yes	1	No	
				5-99 % vol	Kerosene	Yes	1	No	
				5-99 % vol	Gas oil	Yes	1	No	
		IP 156		5-99 % vol	Gasoline	Yes	1	No	
				5-99 % vol	Kerosene	Yes	1	No	
				5-99 % vol	Gas oil	Yes	1	No	
		SS-EN 15553		5-99 % vol	Gasoline	Yes	1	No	
				5-99 % vol	Kerosene	Yes	1	No	
				5-99 % vol	Fuel oil	Yes	1	No	
	Ash content	ASTM D482	Gravimetry	0,01 - 0,18 % wt	Fuel oil	Yes	1	No	
			Gravimetry	0,01 - 0,18 % wt	Gas oil	Yes	1	No	
			Gravimetry	0,01 - 0,18 % wt	Gasoline	Yes	1	No	
			Gravimetry	0,01 - 0,18 % wt	Kerosene	Yes	1	No	
			Gravimetry	0,01 - 0,18 % wt	Lubricating oil	Yes	1	No	
			Gravimetry	0,01 - 0,18 % wt	Petroleum products	Yes	1	No	
		IP 4	Gravimetry	0,001-0,18 % wt	Fuel oil	Yes	1	No	
			Gravimetry	0,001-0,18 % wt	Gas oil	Yes	1	No	
			Gravimetry	0,001-0,18 % wt	Gasoline	Yes	1	No	
			Gravimetry	0,001-0,18 % wt	Kerosene	Yes	1	No	
			Gravimetry	0,001-0,18 % wt	Lubricating oil	Yes	1	No	
			Gravimetry	0,001-0,18 % wt	Petroleum products	Yes	1	No	

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Fuel analysis	Ash content	SS-EN ISO 6245	Gravimetry	0,001-0,18 % wt	Fuel oil	Yes	1	No	
			Gravimetry	0,001-0,18 % wt	Gas oil	Yes	1	No	
			Gravimetry	0,001-0,18 % wt	Gasoline	Yes	1	No	
			Gravimetry	0,001-0,18 % wt	Kerosene	Yes	1	No	
			Gravimetry	0,001-0,18 % wt	Lubricating oil	Yes	1	No	
			Gravimetry	0,001-0,18 % wt	Petroleum products	Yes	1	No	
	Asphaltenes	IP 143	Gravimetry	0,5-25 % wt	Fuel oil	Yes	1	No	
			Gravimetry	0,5-25 % wt	Gas oil	Yes	1	No	
			Gravimetry	0,5-25% wt	Petroleum products	Yes	1	No	
	Benzene	SS-EN 238	IR	0,1-10 % vol	Gasoline	Yes	1	No	
	Calorific value	ASTM D240	Bomb Calorimetry	20-50 MJ/kg	Biofuel	Yes	1	No	
			Bomb Calorimetry	20-50 MJ/kg	Fuel oil	Yes	1	No	
			Bomb Calorimetry	20-50 MJ/kg	Gas oil	Yes	1	No	
		ASTM D4809	Bomb Calorimetry	37-48 MJ/kg	Petroleum products	Yes	1	No	Liquid Hydrocarbon fuels
		ASTM D4868	Calculation	35-50 MJ/kg	Fuel oil	Yes	1	No	
			Calculation	35-50 MJ/kg	Gas oil	Yes	1	No	
	Carbon, C	ASTM D5291	Combustion	30,0 - 94,0 % wt	Lubricating oil	Yes	1	No	
			Combustion	30,0 - 94,0 % wt	Petroleum products	Yes	1	No	
	Cetane index	ASTM D4737	Calculation	40-60	Gas oil	Yes	1	No	
		ASTM D976	Calculation	40-60	Gas oil	Yes	1	No	
		SS-EN ISO 4264	Calculation	40-60	Gas oil	Yes	1	No	
	Cetane number	ASTM D613		40-75	Gas oil	Yes	1	No	
		IP 41		40-75	Gas oil	Yes	1	No	

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Fuel analysis	Cetane number	SS-EN ISO 5165		40-75	Gas oil	Yes	1	No	
	Cloud point	ASTM D2500		-42-+30 °C	Gas oil	Yes	1	No	
		ASTM D7689		-50-+6 °C	Gas oil	Yes	1	No	
		IP 219		-42-+30 °C	Gas oil	Yes	1	No	
		SS-EN ISO 3015		-42-+30 °C	Gas oil	Yes	1	No	
	Cold filter plugging point, CFPP	D6371	Filtration	-35-+30 °C	Gas oil	Yes	1	No	
		IP 309	Filtration	-35-+30 °C	Gas oil	Yes	1	No	
		SS-EN 116	Filtration	-35-+30 °C	Gas oil	Yes	1	No	
	Colour	ASTM D1500		0-3	Gas oil	Yes	1	No	
				0-3	Lubricating oil	Yes	1	No	
		IP 196		0-3	Gas oil	Yes	1	No	
				0-3	Lubricating oil	Yes	1	No	
		SS-ISO 2049		0-3	Gas oil	Yes	1	No	
				0-3	Lubricating oil	Yes	1	No	
	Compatibility	ASTM D4740		1-5	Fuel oil	Yes	1	No	
	Conductivity	ASTM D2624		10-1000 pS/m	Gas oil	Yes	1	No	
				10-1000 pS/m	Kerosene	Yes	1	No	
	Copper corrosion	ASTM D130		1a-4c	Gas oil	Yes	1	No	
				1a-4c	Gasoline	Yes	1	No	
				1a-4c	Kerosene	Yes	1	No	
		ASTM D1838		1-4	Gas	Yes	1	No	
		IP 154		1a-4c	Gas oil	Yes	1	No	
				1a-4c	Gasoline	Yes	1	No	
				1a-4c	Kerosene	Yes	1	No	

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Fuel analysis	Copper corrosion	SS-EN ISO 2160		1a-4c	Gas oil	Yes	1	No	
				1a-4c	Gasoline	Yes	1	No	
				1a-4c	Kerosene	Yes	1	No	
		SS-EN ISO 6251		1-4	Gas	Yes	1	No	
	Density	ASTM D4052		0,68-0,97 g/cm3	Petroleum products	Yes	1	No	
		ASTM D5002		0,75-0,95 g/cm3	Petroleum products	Yes	1	No	
		IP 365		0,60-1,10 g/cm3	Petroleum products	Yes	1	No	
		SS-EN ISO 12185		0,60-1,10 g/cm3	Petroleum products	Yes	1	No	
	Distillation	ASTM D86		25-400 °C	Gas oil	Yes	1	No	
				25-400 °C	Gasoline	Yes	1	No	
				25-400 °C	Kerosene	Yes	1	No	
		IP 123		25-400 °C	Gas oil	Yes	1	No	
				25-400 °C	Gasoline	Yes	1	No	
				25-400 °C	Kerosene	Yes	1	No	
		SS-EN ISO 3405		25-400 °C	Gas oil	Yes	1	No	
				25-400 °C	Gasoline	Yes	1	No	
				25-400 °C	Kerosene	Yes	1	No	
	Doctor Test, Mercaptan Sulphur	ASTM D4952			Gas oil	Yes	1	No	
					Gasoline	Yes	1	No	
					Kerosene	Yes	1	No	

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Fuel analysis	Flash point	ASTM D93		40-200 °C	Fuel oil	Yes	1	No	
				40-200 °C	Gas oil	Yes	1	No	
				40-200 °C	Kerosene	Yes	1	No	
				40-200 °C	Lubricating oil	Yes	1	No	
				40-200 °C	Petroleum products	Yes	1	No	
		IP 170		20-71 °C	Gasoline	Yes	1	No	
				20-71 °C	Kerosene	Yes	1	No	
				20-71 °C	Petroleum products	Yes	1	No	
		IP 34		40-200 °C	Fuel oil	Yes	1	No	
				40-200 °C	Gas oil	Yes	1	No	
				40-200 °C	Kerosene	Yes	1	No	
				40-200 °C	Lubricating oil	Yes	1	No	
				40-200 °C	Petroleum products	Yes	1	No	
		SS-EN ISO 2719		40-200 °C	Fuel oil	Yes	1	No	
				40-200 °C	Gas oil	Yes	1	No	
				40-200 °C	Kerosene	Yes	1	No	
				40-200 °C	Lubricating oil	Yes	1	No	
				40-200 °C	Petroleum products	Yes	1	No	
	Freezing point	ASTM D2386		-75-0,0 °C	Kerosene	Yes	1	No	
		IP 16		-75-0,0 °C	Kerosene	Yes	1	No	
		ISO 3013		-75-0,0 °C	Kerosene	Yes	1	No	
	Gum content	ASTM D381	Gravimetry	0,5-1000 mg/100 ml	Gasoline	Yes	1	No	
		IP 131	Gravimetry	1-1000 mg/100 ml	Gasoline	Yes	1	No	
		IP 540	Gravimetry	1-50 mg/100 ml	Kerosene	Yes	1	No	

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Fuel analysis	Gum content	SS-EN ISO 6246	Gravimetry	0,5-1000 mg/100 ml	Gasoline	Yes	1	No	
	Hydrogen, H	ASTM D5291	Combustion	4,0 - 16,0 % wt	Lubricating oil	Yes	1	No	
			Combustion	4,0 - 16,0 % wt	Petroleum products	Yes	1	No	
	Mercaptan sulfur	ASTM D3227	Titration	3-100 mg/kg	Gasoline	Yes	1	No	
			Titration	3-100 mg/kg	Kerosene	Yes	1	No	
	Neutralization number (Acid or base number)	ASTM D974	Titration	0,01-2,0 mg KOH/g	Gas oil	Yes	1	No	
			Titration	0,01-2,0 mg KOH/g	Gasoline	Yes	1	No	
			Titration	0,01-2,0 mg KOH/g	Kerosene	Yes	1	No	
			Titration	0,01-2,0 mg KOH/g	Lubricating oil	Yes	1	No	
		IP 139	Titration	0,01-2,0 mg KOH/g	Gas oil	Yes	1	No	
			Titration	0,01-2,0 mg KOH/g	Gasoline	Yes	1	No	
			Titration	0,01-2,0 mg KOH/g	Kerosene	Yes	1	No	
			Titration	0,01-2,0 mg KOH/g	Lubricating oil	Yes	1	No	

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Fuel analysis	Neutralization number (Acid or base number)	SS-ISO 6618	Titration	0,01-2,0 mg KOH/g	Gas oil	Yes	1	No	
			Titration	0,01-2,0 mg KOH/g	Gasoline	Yes	1	No	
			Titration	0,01-2,0 mg KOH/g	Kerosene	Yes	1	No	
			Titration	0,01-2,0 mg KOH/g	Lubricating oil	Yes	1	No	
	Nitrogen, N	ASTM D5291	Combustion	0,1 - 10,0 % wt	Lubricating oil	Yes	1	No	
			Combustion	0,1 - 10,0 % wt	Petroleum products	Yes	1	No	
	Octane number motor, MON	ASTM D2700	CRF Engine	70-100	Gasoline	Yes	1	No	
		IP 236	CRF Engine	70-100	Gasoline	Yes	1	No	
		SS-EN ISO 5163	CRF Engine	70-100	Gasoline	Yes	1	No	
	Octane number research, RON	ASTM D2699	CRF Engine	70-100	Gasoline	Yes	1	No	
		IP 237	CRF Engine	70-100	Gasoline	Yes	1	No	
		SS-EN ISO 5164	CRF Engine	70-100	Gasoline	Yes	1	No	
	Particulate contamination	ASTM D5452	Gravimetry	0,1-100 mg/L	Kerosene	Yes	1	No	
	Pour point	ASTM D97		-39-+39 °C	Fuel oil	Yes	1	No	
				-39-+39 °C	Gas oil	Yes	1	No	
				-39-+39 °C	Lubricating oil	Yes	1	No	
				-39-+39 °C	Petroleum products	Yes	1	No	
		IP 15		-39-+39 °C	Fuel oil	Yes	1	No	
				-39-+39 °C	Gas oil	Yes	1	No	
				-39-+39 °C	Lubricating oil	Yes	1	No	
				-39-+39 °C	Petroleum products	Yes	1	No	

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Fuel analysis	Pour point	SS-EN ISO 3016		-39-+39 °C	Fuel oil	Yes	1	No	
				-39-+39 °C	Gas oil	Yes	1	No	
				-39-+39 °C	Lubricating oil	Yes	1	No	
				-39-+39 °C	Petroleum products	Yes	1	No	
	Sediment by extraction	ASTM D473		0,01-0,4 % wt	Fuel oil	Yes	1	No	
				0,01-0,4 % wt	Gas oil	Yes	1	No	
				0,01-0,4 % wt	Lubricating oil	Yes	1	No	
				0,01-0,4 % wt	Petroleum products	Yes	1	No	
		IP 53		0,01-0,4 % wt	Fuel oil	Yes	1	No	
				0,01-0,4 % wt	Gas oil	Yes	1	No	
				0,01-0,4 % wt	Lubricating oil	Yes	1	No	
				0,01-0,4 % wt	Petroleum products	Yes	1	No	
		SS-EN ISO 3735		0,01-0,4 % wt	Fuel oil	Yes	1	No	
				0,01-0,4 % wt	Gas oil	Yes	1	No	
				0,01-0,4 % wt	Lubricating oil	Yes	1	No	
				0,01-0,4 % wt	Petroleum products	Yes	1	No	
	Smoke point	ASTM D1322		15-40 mm	Kerosene	Yes	1	No	
		SS-ISO 3014		15-40 mm	Kerosene	Yes	1	No	
	Sulfur, S	ASTM D4294	XRF	0,01-5,0 % wt	Fuel oil	Yes	1	No	
			XRF	0,01-5,0 % wt	Gas oil	Yes	1	No	
			XRF	0,01-5,0 % wt	Gasoline	Yes	1	No	
			XRF	0,01-5,0 % wt	Kerosene	Yes	1	No	
			XRF	0,01-5,0 % wt	Lubricating oil	Yes	1	No	
			XRF	0,01-5,0 % wt	Petroleum products	Yes	1	No	

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Fuel analysis	Sulfur, S	ASTM D5453	UV-fluorescens	2-1200 mg/kg	Gas oil	Yes	1	No	
			UV-fluorescens	2-1200 mg/kg	Gasoline	Yes	1	No	
			UV-fluorescens	2-1200 mg/kg	Kerosene	Yes	1	No	
		SSAB 1106			Gas	Yes	1	No	
		SS-EN ISO 20846	UV-fluorescens	3-500 mg/kg	Gas oil	Yes	1	No	
			UV-fluorescens	3-500 mg/kg	Gasoline	Yes	1	No	
			UV-fluorescens	3-500 mg/kg	Kerosene	Yes	1	No	
		SS-EN ISO 8754	XRF	0,03-5,0 % wt	Fuel oil	Yes	1	No	
			XRF	0,03-5,0 % wt	Gas oil	Yes	1	No	
			XRF	0,03-5,0 % wt	Gasoline	Yes	1	No	
			XRF	0,03-5,0 % wt	Kerosene	Yes	1	No	
			XRF	0,03-5,0 % wt	Lubricating oil	Yes	1	No	
			XRF	0,03-5,0 % wt	Petroleum products	Yes	1	No	
	Thermal oxidation stability (JFTOT)	ASTM D3241			Kerosene	Yes	1	No	
		IP 323			Kerosene	Yes	1	No	
		ISO 6249			Kerosene	Yes	1	No	
	Viscosity	ASTM D7042	Viscometer	1,5-5.0 mm2/s	Gas oil	Yes	1	No	
			Viscometer	1,5-800 mm2/s	Petroleum products	Yes	1	No	
			Viscometer	15-800 mm2/s	Fuel oil	Yes	1	No	
		SS-EN 16896	Viscometer	1,5-6,0 mm2/s	Gas oil	Yes	1	No	

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Fuel analysis	Water content	ASTM D6304	Coulometric Karl Fischer	0,02-5,00 % vol	Petroleum products	Yes	1	No	
			Coulometric Karl Fischer	10-1000 mg/kg	Fuel oil	Yes	1	No	
			Coulometric Karl Fischer	10-1000 mg/kg	Gas oil	Yes	1	No	
			Coulometric Karl Fischer	10-1000 mg/kg	Gasoline	Yes	1	No	
			Coulometric Karl Fischer	10-1000 mg/kg	Kerosene	Yes	1	No	
			Coulometric Karl Fischer	10-1000 mg/kg	Petroleum products	Yes	1	No	
		ASTM D95	Distillation	0,1-25 % vol	Fuel oil	Yes	1	No	
			Distillation	0,1-25 % vol	Gas oil	Yes	1	No	
			Distillation	0,1-25 % vol	Lubricating oil	Yes	1	No	
			Distillation	0,1-25 % vol	Petroleum products	Yes	1	No	
		IP 386	Coulometric Karl Fischer	0,02-5,00 % vol	Petroleum products	Yes	1	No	
		IP 74	Distillation	0,1-25 % vol	Fuel oil	Yes	1	No	
			Distillation	0,1-25 % vol	Gas oil	Yes	1	No	
			Distillation	0,1-25 % vol	Lubricating oil	Yes	1	No	
			Distillation	0,1-25 % vol	Petroleum products	Yes	1	No	

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Fuel analysis	Water content	SS-EN ISO 12937	Coulometric Karl Fischer	30-1000 mg/kg	Fuel oil	Yes	1	No	
			Coulometric Karl Fischer	30-1000 mg/kg	Gas oil	Yes	1	No	
			Coulometric Karl Fischer	30-1000 mg/kg	Gasoline	Yes	1	No	
			Coulometric Karl Fischer	30-1000 mg/kg	Kerosene	Yes	1	No	
			Coulometric Karl Fischer	30-1000 mg/kg	Petroleum products	Yes	1	No	
		SS-ISO 3733	Distillation	0,1-25 % vol	Fuel oil	Yes	1	No	
			Distillation	0,1-25 % vol	Gas oil	Yes	1	No	
			Distillation	0,1-25 % vol	Lubricating oil	Yes	1	No	
			Distillation	0,1-25 % vol	Petroleum products	Yes	1	No	
	Water reaction	ASTM D1094			Gasoline	Yes	1	No	
					Kerosene	Yes	1	No	
		IP 289			Gasoline	Yes	1	No	
					Kerosene	Yes	1	No	
		SS-ISO 6250			Gasoline	Yes	1	No	
					Kerosene	Yes	1	No	
	Water separations characteristics, MSEP	ASTM D3948		50-100	Kerosene	Yes	1	No	
		ASTM D7224		50-100	Kerosene	Yes	1	No	
Inorganic chemistry	Aluminum, Al	IP 501	ICP-AES	5-150 mg/kg	Fuel oil	Yes	1	No	
		ISO 10478	ICP-AAS	5-150 mg/kg	Fuel oil	Yes	1	No	
	Calcium, Ca	IP 501	ICP-AES	3-100 mg/kg	Fuel oil	Yes	1	No	
	Iron, Fe	IP 501	ICP-AES	2-60 mg/kg	Fuel oil	Yes	1	No	

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Inorganic chemistry	Nickel, Ni	IP 501	ICP-AES	1-100 mg/kg	Fuel oil	Yes	1	No	
	Phosphorus, P	IP 501	ICP-AES	1-60 mg/kg	Fuel oil	Yes	1	No	
	Silicon, Si	IP 501	ICP-AES	10-250 mg/kg	Fuel oil	Yes	1	No	
		SS-ISO 10478	ICP-AAS	10-125 mg/kg	Fuel oil	Yes	1	No	
	Sodium, Na	IP 501	ICP-AES	1-100 mg/kg	Fuel oil	Yes	1	No	
	Vanadium, V	IP 501	ICP-AES	1-400 mg/kg	Fuel oil	Yes	1	No	
	Zinc, Zn	IP 501	ICP-AES	1-70 mg/kg	Fuel oil	Yes	1	No	
Organic chemistry	Hydrocarbon oilindex	SS-EN ISO 9377-2	GC-FID	0,1-15 mg/l	Waste water/Leach water	Yes	1	No	
Sampling	Manual sampling of petroleum and petroleum products	ASTM D4057				Yes	1	Yes	
		SS-EN ISO 3170				Yes	1	Yes	
	Sampling and Handling of Fuels for Volatility Measurement	ASTM D5842				Yes	1	Yes	
	Sampling Liquefied Petroleum Gases	ASTM D1265				Yes	1	Yes	
Water analysis	Chemical oxygen demand, COD-Cr	ISO 15705	Photometry	15 -1000 mg/l	Waste water/Leach water	Yes	1	No	
	Nitrogen, total, TNb	SS-EN ISO 20236	Combustion	1-40 mg/l	Waste water/Leach water	Yes	1	No	
	Total organic carbon, TOC	SS-EN ISO 20236	Combustion	1-200 mg/l	Waste water/Leach water	Yes	1	No	

Date

Reference

2025-06-27

2024/1335

Changes in the scope of accreditation are in bold.

The scope of accreditation is flexible as specified in this decision. The accredited body must always retain a current list of the scope for which it is accredited.

Type of flexible scope

1: - Introduce new version of standard method and make editorial changes to non-standard method

2: - Introduce new version of standard method and make editorial changes to non-standard method - Introduce new version and modifications of non-standard method. The procedure must be equivalent - Introduce new parameter/component/characteristics - Introduce new measurement range - Introduce new material/new products/matrices - Introduce new method equivalent to methods already in the accreditation decision