

Date

Reference

2024-04-12

2022/2478

**Scope of accreditation**

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

Saybolt Sweden AB

Göteborg

Accreditation number

1352

Laboratoriet

A001381-001

**Chemical analysis**

<i>Technical area</i>	<i>Parameter</i>	<i>Method</i>	<i>Technique</i>	<i>Measure</i>	<i>Material</i>	<i>Flex</i>	<i>Type of flex</i>	<i>Field</i>	<i>Note</i>	
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	
Aromater, tri+	SS-EN 12916	HPLC		0,1 - 2,0 % wt	Gas oil	Yes	1	No		

Date

Reference

2024-04-12

2022/2478

<i>Technical area</i>	<i>Parameter</i>	<i>Method</i>	<i>Technique</i>	<i>Measure</i>	<i>Material</i>	<i>Flex</i>	<i>Type of flex</i>	<i>Field</i>	<i>Note</i>	
Fuel analysis	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		
		IP 156		5-99 % vol	Gas oil	Yes	1	No		
				5-99 % vol	Gasoline	Yes	1	No		
				5-99 % vol	Kerosene	Yes	1	No		
		SS-EN 15553		5-99 % vol	Gas oil	Yes	1	No		
				5-99 % vol	Gasoline	Yes	1	No		
				5-99 % vol	Kerosene	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			

Date

Reference

2024-04-12

2022/2478

<i>Technical area</i>	<i>Parameter</i>	<i>Method</i>	<i>Technique</i>	<i>Measure</i>	<i>Material</i>	<i>Flex</i>	<i>Type of flex</i>	<i>Field</i>	<i>Note</i>
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 calorimeter	20-50 MJ/kg	Biofuel	Yes	1	No	
			Bomb calorimeter	20-50 MJ/kg	Fuel oil	Yes	1	No	
			Bomb calorimeter	20-50 MJ/kg	Gas oil	Yes	1	No	
		<b>ASTM D4809</b>	<b>Bomb calorimeter</b>	<b>37-48 MJ/kg</b>	<b>Petroleum products</b>	<b>Yes</b>	<b>1</b>	<b>No</b>	<b>Liquid Hydrocarbon fuels</b>
		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		
	SS-EN ISO 5165		40-75	Gas oil	Yes	1	No		
<b>Cloud point</b>	<b>ASTM D2500</b>		<b>-42-+30 °C</b>	<b>Gas oil</b>	<b>Yes</b>	<b>1</b>	<b>No</b>		

Date

Reference

2024-04-12

2022/2478

<i>Technical area</i>	<i>Parameter</i>	<i>Method</i>	<i>Technique</i>	<i>Measure</i>	<i>Material</i>	<i>Flex</i>	<i>Type of flex</i>	<i>Field</i>	<i>Note</i>	
Fuel analysis	Cloud point	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		
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		

Date

Reference

2024-04-12

2022/2478

<i>Technical area</i>	<i>Parameter</i>	<i>Method</i>	<i>Technique</i>	<i>Measure</i>	<i>Material</i>	<i>Flex</i>	<i>Type of flex</i>	<i>Field</i>	<i>Note</i>	
Fuel analysis	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	
	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			

Date

Reference

2024-04-12

2022/2478

<i>Technical area</i>	<i>Parameter</i>	<i>Method</i>	<i>Technique</i>	<i>Measure</i>	<i>Material</i>	<i>Flex</i>	<i>Type of flex</i>	<i>Field</i>	<i>Note</i>	
Fuel analysis	Flash point	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	
			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		

Date

Reference

2024-04-12

2022/2478

<i>Technical area</i>	<i>Parameter</i>	<i>Method</i>	<i>Technique</i>	<i>Measure</i>	<i>Material</i>	<i>Flex</i>	<i>Type of flex</i>	<i>Field</i>	<i>Note</i>	
Fuel analysis	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	<b>0,01-2,0 mg KOH/g</b>	<b>Gas oil</b>	<b>Yes</b>	<b>1</b>	<b>No</b>		
			Titration	<b>0,01-2,0 mg KOH/g</b>	<b>Gasoline</b>	<b>Yes</b>	<b>1</b>	<b>No</b>		
			Titration	<b>0,01-2,0 mg KOH/g</b>	<b>Kerosene</b>	<b>Yes</b>	<b>1</b>	<b>No</b>		
			Titration	<b>0,01-2,0 mg KOH/g</b>	<b>Lubricating oil</b>	<b>Yes</b>	<b>1</b>	<b>No</b>		
		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			

Date

Reference

2024-04-12

2022/2478

<i>Technical area</i>	<i>Parameter</i>	<i>Method</i>	<i>Technique</i>	<i>Measure</i>	<i>Material</i>	<i>Flex</i>	<i>Type of flex</i>	<i>Field</i>	<i>Note</i>		
Fuel analysis	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	
		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		



Date

Reference

2024-04-12

2022/2478

<i>Technical area</i>	<i>Parameter</i>	<i>Method</i>	<i>Technique</i>	<i>Measure</i>	<i>Material</i>	<i>Flex</i>	<i>Type of flex</i>	<i>Field</i>	<i>Note</i>
Fuel analysis	Sediment by extraction	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	
		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	

Date

Reference

2024-04-12

2022/2478

<i>Technical area</i>	<i>Parameter</i>	<i>Method</i>	<i>Technique</i>	<i>Measure</i>	<i>Material</i>	<i>Flex</i>	<i>Type of flex</i>	<i>Field</i>	<i>Note</i>
Fuel analysis	Thermal oxidation stability (JFTOT)	IP 323			Kerosene	Yes	1	No	
		ISO 6249			Kerosene	Yes	1	No	
	Viscosity	ASTM D7042	Viscometer	1,5-5.0 mm <sup>2</sup> /s	Gas oil	Yes	1	No	
			Viscometer	1,5-800 mm <sup>2</sup> /s	Petroleum products	Yes	1	No	
			Viscometer	15-800 mm <sup>2</sup> /s	Fuel oil	Yes	1	No	
		SS-EN 16896	Viscometer	1,5-6,0 mm <sup>2</sup> /s	Gas oil	Yes	1	No	
	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			

Date

Reference

2024-04-12

2022/2478

<i>Technical area</i>	<i>Parameter</i>	<i>Method</i>	<i>Technique</i>	<i>Measure</i>	<i>Material</i>	<i>Flex</i>	<i>Type of flex</i>	<i>Field</i>	<i>Note</i>
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	Aluminium, 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	
	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	

Date

Reference

2024-04-12

2022/2478

<i>Technical area</i>	<i>Parameter</i>	<i>Method</i>	<i>Technique</i>	<i>Measure</i>	<i>Material</i>	<i>Flex</i>	<i>Type of flex</i>	<i>Field</i>	<i>Note</i>
Inorganic chemistry	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	
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	

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