Report Date: 21/04/2018

Analysis Report: ST18-03203.001

BESTON (HENAN) MACHINERY CO., LTD
CHINA

JOB ORDER NO. :	OBOCJ1800114-01FO	BOSS ORDER NO.:	--
		PRODUCT DESCRIPTION :	Fuel Oil - waste tyre oil
SAMPLE SOURCE :	Supplied by Client		
SAMPLE TYPE :	--		
SAMPLED :	--	RECEIVED :	11/04/2018
ANALYSED :	19/04/2018 - 21/04/2018	COMPLETED :	21/04/2018
CONTAINER:	2×500mL Plastic Bottle		
REPORT COMMENT :	The test report shall only be used for clients' scientific research, teaching, internal quality control, product research and development, etc... and just for internal reference.		

PROPERTY	METHOD	RESULT	UNITS	MIN	MAX
Appearance	Visual	DARK	---	--	--
ASTM Colour	ASTM D1500-12(2017)	D8.0	---	--	--
Density at 15°C	ASTM D1298-12b(2017)	917.8	kg/m³	--	--
Distillation of Petroleum Products at Atmospheric Pressure	ASTM D86-17				
Initial boiling point (IBP)		56.1	°C	--	--
10 % Recovered at		143.6	°C	--	--
50 % Recovered at		292.3	°C	--	--
90 % Recovered at		391.3	°C	--	--
Flash Point by PMCC	ASTM D93-16a(Procedure A)	<40.0	°C	--	--
Copper Strip corrosion (3h / 50°C {122°F})	ASTM D130-12	1a	Rating	--	--
Total Sulfur Content	ASTM D2622-16	0.933	% (m/m)	--	--
Kinematic Viscosity at 40°C	ASTM D445-17a	3.543	mm²/s	--	--
Conradson Carbon Residue	ASTM D189-06(2014)	0.58	% (m/m)	--	--
Water Content	ASTM D6304-16e1(Procedure A)	769	mg/kg	--	--
Ash from Petroleum Products	ASTM D482-13				
Ash		0.001	% (m/m)	--	--
Sediment by Extraction	ASTM D473-07(2017)e1	0.08	% (m/m)	--	--
Gross Heat of Combustion	GB/T 384-81(2004)	42.755	MJ/kg	--	--
Net Heat of Combustion of Light Oil	GB/T 384-81(2004)	40.210	MJ/kg	--	--

REPORTED BY

Amy Wu
Chemist

AUTHORISED SIGNATORY

Demin Wang
Section Header

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd
Shanghai OGC Testing Center

No.88 Pugong Road, Shanghai Chemical Industry Park, Shanghai, China, 201507

Report Date: 21/04/2018

Analysis Report: ST18-03203.002

BESTON (HENAN) MACHINERY CO., LTD
CHINA

JOB ORDER NO. :	OBOCJ1800114-01FO	BOSS ORDER NO.:	--
		PRODUCT DESCRIPTION :	Fuel Oil - tyre oil after distillation
SAMPLE SOURCE :	Supplied by Client		
SAMPLE TYPE :	--		
SAMPLED :	--	RECEIVED :	11/04/2018
ANALYSED :	19/04/2018 - 20/04/2018	COMPLETED :	20/04/2018
CONTAINER:	2×500mL Plastic Bottle		
REPORT COMMENT :	The test report shall only be used for clients' scientific research, teaching, internal quality control, product research and development, etc… and just for internal reference.		

PROPERTY	METHOD	RESULT	UNITS	MIN	MAX
Appearance	Visual	Clear & Bright	---	--	--
ASTM Colour	ASTM D1500-12(2017)	L2.0	---	--	--
Density at 15°C	ASTM D1298-12b(2017)	860.0	kg/m³	--	--
Distillation of Petroleum Products at Atmospheric Pressure	ASTM D86-17				
Initial boiling point (IBP)		92.7	°C	--	--
10 % Recovered at		137.0	°C	--	--
50 % Recovered at		182.3	°C	--	--
90 % Recovered at		258.0	°C	--	--
95 % Recovered at		279.7	°C	--	--
Final boiling point (FBP)		296.8	°C	--	--
Flash Point by PMCC	ASTM D93-16a(Procedure A)	<40.0	°C	--	--
Copper Strip corrosion (3h / 50°C {122°F})	ASTM D130-12	3a	Rating	--	--
Total Sulfur Content	ASTM D2622-16	0.639	% (m/m)	--	--
Kinematic Viscosity at 40°C	ASTM D445-17a	1.114	mm²/s	--	--
Conradson Carbon Residue	ASTM D189-06(2014)	<0.10	% (m/m)	--	--
Water Content	ASTM D6304-16e1(Procedure A)	264	mg/kg	--	--
Ash from Petroleum Products	ASTM D482-13				
Ash		0.002	% (m/m)	--	--
Sediment by Extraction	ASTM D473-07(2017)e1	0.01	% (m/m)	--	--
Gross Heat of Combustion	GB/T 384-81(2004)	43.960	MJ/kg	--	--
Net Heat of Combustion of Light Oil	GB/T 384-81(2004)	41.415	MJ/kg	--	--

---------- End of Analytical Results ----------

REPORTED BY

Amy Wu
Chemist

AUTHORISED SIGNATORY

Demin Wang
Section Header

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd
Shanghai OGC Testing Center
No.88 Pugong Road, Shanghai Chemical Industry Park, Shanghai, China, 201507