

31 August 2016

Ms. Yvonne Koay  
Lubrizol Southeast Asia (Pte) Ltd  
44 Tanjong Penjuru  
SINGAPORE 609032

Dear Ms. Yvonne Koay,

Thank you for your co-operation about the new application on behalf of BARDAHL DE MEXICO S.A. DE C.V.

We are enclosing the "Notification and Written Consent" about your document as follows.

M052BSB004.....BARDAHL MOTOS 4T

We are going to publicize the information about this on-filed product from September 2016.  
We would like you to check the following information.  
If you find some wrong points, please let us know.

①Oil Code	M052BSB004
②Brand Name	BARDAHL MOTOS 4T
③Submitter Name	BARDAHL DE MEXICO S.A. DE C.V.
④Viscosity Grade	10W-30
⑤Performance classifications	MB

If there are any questions, please feel free to contact us.

Best regards,



Shigenori Hidan (Mr.)  
Business Dept.

CC., Toshirou Shimazaki - Secretary General of the Japan lubricating oil society(JALOS)

ORIGINAL

TABLE A

**NOTIFICATION AND WRITTEN CONSENT OF FILING BASED ON  
THE MOTORCYCLES-FOUR-STROKE CYCLE GASOLINE ENGINE OILS  
(JASO T 903:2011)  
[NOTIFICATION OF FILING]**

TO: BARDAHL DE MEXICO S.A. DE C.V.

DATE: 31 /Day 8 /Month 2016 /Year

From: The JASO Engine Oil standards  
Implementation Panel



As shown below, we have filed the motorcycle four-cycle oil with the oil code reference number and performance class indicated below, and hereby inform you as follows:

Receipt no. :	<u>M16081201</u>
Product name or no. :	<u>BARDAHL MOTOS 4T SAE 10W 30 API SL JASO MB</u>
Trade name :	<u>BARDAHL MOTOS 4T</u>
Viscosity grade :	<u>SAE 10W-30</u>
Oil code reference no. :	<u>M052BSB004</u>
Performance class :	<u>MB</u>

ORIGINAL

TABLE B

**NOTIFICATION AND WRITTEN CONSENT OF FILING BASED ON  
THE MOTORCYCLES-FOUR-STROKE CYCLE GASOLINE ENGINE OILS  
(JASO T 903:2011)  
[WRITTEN CONSENT OF FILING]**

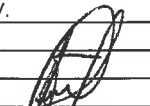
TO: The JASO Engine Oil standards Implementation Panel

Regarding the marketing of a motorcycle four-cycle oil filed by the JASO Engine Oil Standards Implementation Panel (the "Panel"), we hereby agree to the following items:

1. We shall be liable for and guarantee the quality and performance of the motorcycle four-cycle oil concerned as well as the labeling thereof.
2. We shall resolve, by ourselves, any problems associated with the use of the motorcycle four-cycle oil concerned in the market, and we agree that the Panel will not be held responsible in any way.
3. We hereby guarantee that the quality and performance described in the notification documents submitted for filing are data representing the physiochemical properties and performance of the motorcycle four-cycle oil that will be actually marketed. Also the description of quality and performance being submitted is representative of that which will be used.
4. We will widely publicize and educate consumers through our sales channels that the quality and performance of the motorcycle four-cycle oil and its description that are submitted for filing have been classified and guaranteed on our own accountability.

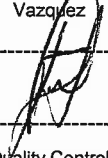
5. We shall not use in our advertisement any expression that may lead to the misunderstanding that the Panel approved or certified the performance of the motorcycle four-cycle oil concerned.
6. Upon receipt of a request from the Panel, we shall submit the original friction test results under **JASO T 903:2011**(Annex A) without delay.
7. We will approve that the Panel may disclose oil code reference number, submitter name, product name and performance class, through communication media including internet, newspapers, magazines, and other publications. Further, where market survey is conducted by the Panel, we will approve that the Panel may disclose the results of the market survey in a form whereby the name of the submitter and the oils are not identifiable.
8. When the marketing of the motorcycle four-cycle oil concerned is discontinued, we will immediately notify the Panel that the filing should be canceled.
9. In addition to the above, we hereby acknowledge that we have understood all contents of the Motorcycles-Four-Stroke Cycle Engine Oils **JASO T 903:2011** Implementation Manual and we hereby agree to abide by them in all respects.

Date : 21 /Day July /Month 2016 /Year  
Company : BARDAHL DE MEXICO S.A. DE C.V.  
Responsible Person : Juan Alberto Guzman Vazquez  
Title : Quality Control Manager  
Signature : \_\_\_\_\_



Appendix 1

**FILING NOTIFICATION BASED ON MOTORCYCLES-FOUR-STROKE CYCLE  
GASOLINE ENGINE OILS  
(JASO T 903:2011)**

Date of submission of Documents		21 /Day July / Month 2016 /Year	
Submitter	BARDAHL DE MEXICO S.A. DE C.V.	Contact Person	Juan Alberto Guzman Vazquez
Name of Person Responsible for Documentation	Juan Alberto Guzman Vazquez	Name	Juan Alberto Guzman Vazquez
		Position	Quality Control Manager
Signature		Address	CARR.TOLUCA-NAUCALPAN KM 52.8 PARQUE INDUSTRIAL TOLUCA 2000 EJE 1 NTE # 16 CP:50233 TOLUCA EDO. DE MEX. MEXICO
Title	Quality Control Manager	Tel	52-722-279-00-49
		Fax	52-722-279-36-16

Motorcycle 4-Cycle Oil to Be Filed	
Internal Product Name or No.	BARDAHL MOTOS 4T SAE 10W 30 API SL JASO MB
Trade Name	BARDAHL MOTOS 4T
Viscosity Grade	SAE 10W-30
Performance Classification	MA MA1 MA2 <b>MB</b>
Oil Code Reference Number	M052BSB004

1. Quality on Engine Oil Specifications

Specifications	Categories
API <sup>a)</sup>	SG SH SJ <b>SL</b> SM <sup>d)</sup> SN <sup>e)</sup>
ILSAC <sup>b)</sup>	GF-1 GF-2 GF-3
ACEA <sup>c)</sup>	A1/B1 A3/B3 A3/B4 A5/B5 C2 C3 C4

Circle the performance category satisfied.

- <sup>a)</sup> The performance levels and standards are documented in API 1509, Engine Service Classification and Guide to Crankcase Oil Selection
- <sup>b)</sup> The standards are documented in the Performance Standard for Passenger Car Engine Oils of the International Lubricant Standardization and Approval Committee (ILSAC)
- <sup>c)</sup> The performance levels are documented in ACEA European Oil Sequences
- <sup>d)</sup> Excluding SM/EC
- <sup>e)</sup> Excluding SN/RC

## 2. Physiochemical Properties

Item	Test Method		Measured Value	Specification		
	JIS K or JPI	ASTM				
Density (15°C)	g/cm <sup>3</sup>	K 2249	D4052	0.8673	Report	
Flash point	°C	K 2265	D92	233	Report	
Kinematic viscosity (at 40 °C)	mm <sup>2</sup> /s	K 2283	D445	67.4	Report	
Kinematic viscosity (at 100 °C)	mm <sup>2</sup> /s	K 2283	D445	10.3	Note 1	
Viscosity index		K 2283	D2270	139	Report	
Low-temp. Vis, CCS at -25 °C	mPa·s		D5293	5690	Note 1	
High-temp. High-shear rate Vis. (at 150°C)	mPa·s	JPI-5S-36	D4683	3.1	2.9 Min.	
Sulfated Ash	mass%	K 2272	D874	0.8	1.2 Max.	
Acid number	mgKOH/g	K 2501	D664	1.5	Report	
Base number (HClO <sub>4</sub> method)	mgKOH/g	K 2501	D2896	7.1	Report	
Evaporative Loss	mass%	JPI-5S-41	D5800	11.8	20 Max	
Foaming Tendency (Tendency-Stability)	Seq. I	K 2518	D892	0/0	10 Max. - Nil	
	Seq. II			ml	0/0	50 Max. - Nil
	Seq. III			0/0	10 Max. - Nil	
Shear Stability (by diesel injector method) (Kinematic Viscosity after the test at 100°C)	xW-30	ASTM D6278 (Note 2)	D6278	9.8	9.0 Min.	
	xW-40			-	12.0 Min.	
	xW-50			-	15.0 Min.	
	mm <sup>2</sup> /s Other grades			-	Stay in grade	
Color (Visual inspection)			D1500	L2.5	Report	
Element analysis mass%	Calcium	JPI-5S-38	D4951	0.14	Report	
	Barium	JPI-5S-38	D4951	-	Report	
	Magnesium	JPI-5S-38	D4951	-	Report	
	Zinc	JPI-5S-38	D4951	0.10	Report	
	Boron	JPI-5S-38	D4951	-	Report	
	Phosphorus	JPI-5S-38	D4951	0.08	≥ 0.08 and ≤ 0.12	
	Nitrogen	K 2609	D4629 or D3228	0.08	Report	
	Sodium	JPI-5S-38	D4951	0.05	Report	
	Sulfur	K 2541	D2622 or D4951	0.25	Report	
	Other elements > 100 ppm (except carbon, hydrogen, and oxygen)					Reported
Infrared absorption spectrum analysis (0.1 mm sealed absorption cell)				A4 size IR chart is attached		

**NOTE 1:** In accordance with Engine Oil Viscosity Classification, **SAE J300**.

**NOTE 2:** Test shall be conducted under the standard test conditions (30 cycles).

### 3. Clutch Test Results of Friction properties (JASO T 903:2011 ANNEX A)

Test Method	Items	Test Results	Standard Index			
			MA	MA2	MA1	MB
JASO T903:2011	*DFI (Dynamic Friction Characteristic Index-DFI)	1.66	>1.30 and <2.50	≥1.85 and <2.50	≥1.30 and <1.85	≥0.50 and <1.30
	*SFI (Static Friction Characteristic Index-SFI)	0.53	≥1.25 and <2.50	≥1.70 and <2.50	≥1.25 and <1.70	≥0.50 and <1.25
	*STI (Stop Time Index-STI)	1.71	≥1.45 and <2.50	≥1.85 and <2.50	≥1.45 and <1.85	≥0.50 and <1.45

We hereby warrant that the test results described in this document indicate typical figures of the motorcycle four-cycle oil concerned, and representative performance of the product that will be marketed as such.

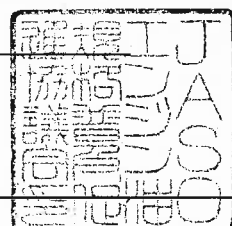
The test reports were prepared according to the format specified in the JASO Standard and the retained test reports are kept under our own responsibility. We herewith submit a representative example of performance classification marking and a copy of the label of the motorcycle 4-cycle oil concerned that will be used on containers and documentation.

Note:

- 1) Refer to the "MOTORCYCLES-FOUR-CYCLE GASOLINE ENGINE OILS (JASO T 903:2011) IMPLEMENTATION MANUAL" in filling in this form.
- 2) The current version of the JASO test procedure at the time of submission must be used to generate test data which are reported in the documents submitted.
- 3) The management fee is Yen 40,000 per submission. It should be paid into the following bank accounts, and a certificate of the payment should be attached to the documents being submitted to the JASO Engine Oil standards Implementation Panel.

Appointed Bank:	Funabashi Branch of the Suritomo Mitsui Banking Corporation
Account No:	Ordinary Deposit #6359999
Owner of the Account:	The Japan Lubricating Oil Society
Or	
Appointed Bank:	Funabashi Branch of the Tokyo-Mitsubishi UFJ. Ltd.
Account No:	Ordinary Deposit #1036018
Owner of the Account:	The Japan Lubricating Oil Society

- 4) In the case where a false report is made, and labeling of the performance of a product and sales were made based on such a report, the company concerned may be penalized under the Act against Unjustifiable Premiums and Misleading Representations of Japan, Article 4, Item 1 or the Unfair Competition Prevention Laws of Japan, Article 2, Item 10, or any other equivalent laws in the country in which the product is marketed.

Only for the Use of the JASO Engine Oil Standards Implementation Panel	
Person responsible for receipt- Name: <u>J. Shimazaki</u>	Seal: 
Date of receipt: <u>2016. 8. 31</u>	
Receipt number: <u>M16081201</u>	
Remarks:	