

Mack Approved Product Field Sample Conformance Letter

Test Engineering Inc.
12718 Cimarron Path
San Antonio, Texas 78249-3423

Date: 08/26/10

BARDAHL DE MEXICO S.A. DE C.V.
Attention Juan Guzman.
Carretera Toluca – Naucalpan Km 52.8,
Parque industrial Toluca 2000, Eje 1 NTE,
Calle #16 MZ 1, C.P. 50200,
Toluca, Estado de México, México 8

Dear Mr. Guzman,

RE: ANNUAL FIELD SAMPLE CHEMICAL ANALYSIS COMPARISONS FOR MACK EO-N PREMIUM PLUS 03 APPROVED PRODUCTS

A sample of this product was obtained from the field and chemical analysis was performed. This analysis was then compared to your original submittal and chemical analysis; we would like to make the following comments.

The chemical analysis comparisons were within normal reproducibility limits and/or blending tolerances; hence oils formulated, as stated in your original request, can continue to be labeled as conforming to Mack EO-N Premium Plus 03.

Company Name: BARDAHL DE MEXICO S.A. DE C.V.
Brand Name: Bardahl Super Series Diesel Oil 15W-40 CI-4 Plus
SAE Grade: 15W-40

The oil shall be used per the ambient temperature and grade guidelines in the engine specific Operation and Maintenance (O & M) manual, as well as in any Mack service documents.

Please notify TEI and Mack immediately if, for any reason, the formulation for this oil changes. Changes to the oil formulation, without written approval, may void this letter of conformance. In addition, as per the Mack specification, this product will be subject to future field sample analysis for compliance.

Sincerely,


Steve L. Gearhart

cc: Greg Shank

DISCLAIMER: Product registration means the manufacturer or marketer has faithfully collected information pertinent to the requirements of the specification and with the full intention to conform to the specification. However, it is still the responsibility of the manufacturer or marketer to ensure satisfactory performance of its products in all aspects at all times. Registration for Mack EO-N Premium Plus 03 does not waive the liability of the manufacturer or the marketer. Mack does not warrant the performance of non- Mack products, registered or not.

**2010 Field Analysis Comparisons
Mack EON Premium Plus 03**

Company Name: Bardahl de Mexico S.A. de C.V.
Product Name: Bardahl Super Diesel Oil 15W-40 CI-4 Plus

Requirement	Original Registration Submittal	Original Analysis SwRI	2010 Field Sample Analysis SwRI	Average	Allowed Deviation	Deviation	Within Reproducibility Limits	Within Acceptable Limits
Blended Viscosity @ 40 C (ASTM D-445)	116.63	112.81	106.05	111.34	0.85	1.47	* FALSE	TRUE
Blended Viscosity @ 100 C (ASTM D-445)	15.38	15.11	14.6	14.855	0.11	0.25	* FALSE	TRUE
TBN (ASTM D-4739)	10	9.76	9.76	9.88	21.10	1.20	TRUE	TRUE
TAN (ASTM D-664)	3.7	2.75	2.65	2.7	28.00	1.82	TRUE	TRUE
Apparent Viscosity @ -20 C (ASTM D-5293)	6576	6070	5230	5650	8.90	6.92	TRUE	TRUE
Barium	1	1	1	1	0.6	0	TRUE	TRUE
Boron	1	1	1	1	13.0	0	TRUE	TRUE
Calcium	3226	3320	3360	3293	561.0	134	TRUE	TRUE
Magnesium	8	8	10	9	3.9	0	TRUE	TRUE
Molybdenum	1	1	1	1	0.6	0	TRUE	TRUE
Phosphorus	1248	1208	1264	1256	152.4	56	TRUE	TRUE
Silicon	1	1	1	1	3	0	TRUE	TRUE
Sodium	1	1	1	1	1.1	0	TRUE	TRUE
Zinc	1403	1333	1426	1414.5	242.5	23	TRUE	TRUE

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