



BUREAU VERITAS

Certificate of Analysis

COA #: INMUM-22-00800

INSPECTORATE GRIFFITH INDIA PVT. LTD.
Plot No B3/B4 TTC Industrial Area, Digha MIDC, Thane Belapur Road,
Near Sandoz Co. Digha Thane,
Navi Mumbai, Maharashtra, 400 708, India
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T: +91 22 50954890

Report Issued To: SulNOx Research & Development Ltd SulNOx Group Plc, 10 Orange Street, Haymarket, London, WC2H 7DQ, London - England			
Sample ID :	INMUM-22-00800-001	Sample Received :	15-Feb-2022
*Customer Reference :	mail	Sample Analysed :	15-Feb-2022
Discipline/Group :	Chemical/Petroleum & Products	Report Issue Date :	11-Mar-2022
Product Name :	Gasoline		
*Asset :	submitted sample		

***SulNOx EcoConditioner 1:2000 blend**

INMUM-22-00800-001

Test	Method	Unit	Result
Corrosion Copper Strip - 3h at 50°C (122°F)	ASTM D130 -19	-	1a
Doctor Test	IP 30 /07(2014)	-	Negative
Unwashed Gum Content	ASTM D381 -19	mg/100mL	5
Washed Gum Content	ASTM D381 -19	mg/100mL	1.5
Induction Period at 100°C	ASTM D525 -12a(2019)	Minutes	>360
Manual/Automated	ASTM D86 -20b	-	Automatic
IBP	ASTM D86 -20b	°C	36.0
5% Recovered	ASTM D86 -20b	°C	48.9
10% Recovered	ASTM D86 -20b	°C	52.2
20% Recovered	ASTM D86 -20b	°C	56.7
30% Recovered	ASTM D86 -20b	°C	60.9
40% Recovered	ASTM D86 -20b	°C	65.3
50% Recovered	ASTM D86 -20b	°C	69.6
60% Recovered	ASTM D86 -20b	°C	104.4
70% Recovered	ASTM D86 -20b	°C	122.0
80% Recovered	ASTM D86 -20b	°C	136.7
90% Recovered	ASTM D86 -20b	°C	154.4
95% Recovered	ASTM D86 -20b	°C	168.2
Endpoint	ASTM D86 -20b	°C	186.8
Residue	ASTM D86 -20b	%	1.0
Sulfur Content	ASTM D5453 -19a	mg/kg	3.4
Color	WI-09 (Visual) :2019	-	Orange
Density at 15°C	ASTM D4052 -18a	g/mL	0.7510
Reid Vapor Pressure	ASTM D323A -20a	kPa	43.5

* Indicates information supplied by the customer for which the laboratory has no control.

Santosh Namdeo UPARE

Laboratory Manager



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Test	Method	Unit	Result
Mercaptan Sulfur	ASTM D3227 -16	mg/kg	<3
Appearance	ASTM D4176 Proc. 1 -21a	-	Pass
Free water	ASTM D4176 Proc. 1 -21a	-	None
Suspended Matter	ASTM D4176 Proc. 1 -21a	-	No suspended Matter
Vapour Lock Index	WI-92 (Calculation) :2019	-	919
Lead	WI-77 (By ICP-USN) :2019	ppb	<1
Phosphorus	WI-77 (By ICP-USN) :2019	ppb	16.0
Manganese	WI-77 (By ICP-USN) :2019	ppb	2.0
Naphthenes	ASTM D5134 -13(2017)	% (V/V)	10.89
Antiknock Index	ASTM D4814 -20a	-	90.7
Aromatics	ASTM D5134 -13(2017)	% (V/V)	29.80
Olefins	ASTM D5134 -13(2017)	% (V/V)	14.39
Benzene	ASTM D5134 -13(2017)	% (V/V)	0.59
E70	ASTM D86 -20b	% (V/V)	51.5
E100	ASTM D86 -20b	% (V/V)	59.3
E150	ASTM D86 -20b	% (V/V)	88.6

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Remark : Report has been amended for inclusion of below remark & description over report No. INMUM-22-0079920220309051129.

Latest issue of test methods used unless stated otherwise.
The above results relate only to the item tested.
Please refer to ASTM D3244-07 and to IP method 367 Appendix E for utilisation of test data for conformance with specifications.
No measurement uncertainty (MOU) has been applied to the reported results. The MOU is available via the reference standard via request directly from the laboratory.
where sampling performed by Bureau Veritas, it is outside the scope of NABL accreditation.
Product meets IS 2896:2017 specification based on test performed and result obtained only with no MOU applied.

--- End of Report ---

Santosh Namdeo UPARE

Laboratory Manager