



Customer Contact

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Attention Mr. Đặng Quốc Dương

Equipment Information

02255937 / 2A17

Description PETROLIMEX PETROCHEMICAL CORPORATION
Order No 24000649 (SEAL NO: 00019899)
Ref. ID/ Fleet No
System Details TOYOTA INNOVA 51F 41591
Product Name PETROLIMEX RACER N 15W40
Add. Details

Sample Information

	1	2
Lab Order Number	L253736	L258945
Date Received	03/01/2024	25/03/2024
Date Tested	04/01/2024	28/03/2024
Date Reported	04/01/2024	28/03/2024
Fuel Used	-	-
Equipment Life (hours)	0	389823
Oil Life (hours)	0	11375
Oil Added (L)	0	0
Sampling Date	19/12/2023	21/03/2024
Lubricant Condition	Normal	Normal

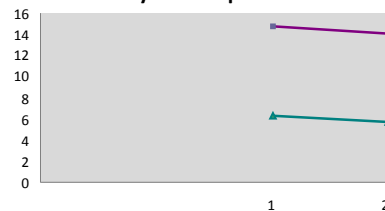
Test Parameters

	1	2
Oil Analysis		
Viscosity 100°C mm²/s	ASTM D7279-20	14.75
Total Base Number mg KOH/g	ASTM D2896-21-B	6.29
Water by Crackle	In-House	0.029
Contamination Index (IC) %	ASTM D7899-19	0.2
Merit of Dispersancy (MD)	ASTM D7899-19	100
Demerit points (DP)	ASTM D7899-19	0
Flash Point 190/160°C °C	ASTM D3828-16a-21-A	Pass @190

Element Analysis, ppm

Iron ppm	ASTM D5185-18	1
Lead ppm	ASTM D5185-18	<1
Copper ppm	ASTM D5185-18	<1
Chromium ppm	ASTM D5185-18	<1
Aluminium ppm	ASTM D5185-18	<1
Nickel ppm	ASTM D5185-18	<1
Silver ppm	ASTM D5185-18	<1
Tin ppm	ASTM D5185-18	2
Silicon ppm	ASTM D5185-18	5
Boron ppm	ASTM D5185-18	91
Sodium ppm	ASTM D5185-18	4
Phosphorus ppm	ASTM D5185-18	807
Zinc ppm	ASTM D5185-18	782
Calcium ppm	ASTM D5185-18	2155
Barium ppm	ASTM D5185-18	<1
Magnesium ppm	ASTM D5185-18	34
Vanadium ppm	ASTM D5185-18	<1
Molybdenum ppm	ASTM D5185-18	3
Titanium ppm	ASTM D5185-18	<1
Cadmium ppm	ASTM D5185-18	<1
Potassium ppm	ASTM D5185-18	3
Lithium ppm	ASTM D5185-18	<1
Manganese ppm	ASTM D5185-18	1

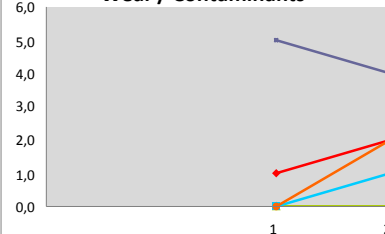
Physical Properties



Viscosity 100°C mm²/s

Total Base Number mg KOH/g

Wear / Contaminants



Fe ppm

Cu ppm

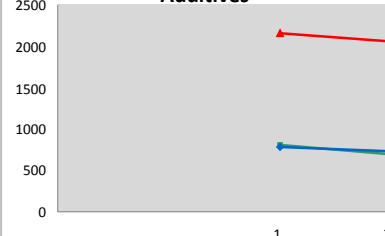
Cr ppm

Pb ppm

Si ppm

Sn ppm

Additives



P ppm

Zn ppm

Ca ppm

SGS Testing & Control Services Singapore Ptd Ltd

Segar "Gunner" Palaniappan
 Laboratory Manager



SGS DIAGNOSIS REMARKS

Based on analysis, all analysis parameters are found acceptable. The oil is fit for further use. Please submit sample as per schedule. We will review the results in the next sample.

The results shown in this report specifically refer to the sample(s) tested as received unless otherwise stated. All tests have been performed using the latest revision of the methods indicated, unless specifically marked otherwise on the report. Precision parameters apply in the determination of the above results. Users of the data shown on this report should refer to the latest published revisions of ASTM D-3244, IP 367 and ISO 4259 and when utilising the test data to determine conformance with any specification or process requirement. This test report is issued under the Company's General Conditions of service (copy available upon request or on the company website at www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional issues defined therein. This report shall not be reproduced except in full, without the written approval of the laboratory.