



Customer Contact

Company Name PETROLIMEX PETROCHEMICAL CORPORATION
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VIETNAM -

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Attention Mr. Đặng Quốc Dương

Equipment Information

02255937 / 2A12

Description PETROLIMEX PETROCHEMICAL CORPORATION
Order No 24000461 (SEAL NO: 00019879)
Ref. ID/ Fleet No
System Details TOYOTA INOVA 51F 41240
Product Name RACER N (SAE 15W40, API: SN)
Add. Details

Sample Information

				1	2
Lab Order Number				L253736	L257496
Date Received		-	-	3/1/2024	29/2/2024
Date Tested		-	-	4/1/2024	4/3/2024
Date Reported		-	-	4/1/2024	8/3/2024
Fuel Used		-	-	-	-
Equipment Life (km)				0	387583
Oil Life (km)				0	8557
Oil Added (L)				0	0
Sampling Date		-	-	19/12/2023	26/2/2024
Lubricant Condition				Normal	Normal

Test Parameters

				1	2
Oil Analysis					
Viscosity 100°C mm²/s	ASTM D7279-20	-	-	14.75	14.34
Total Base Number mg KOH/g	ASTM D2896-21-B	-	-	6.29	5.23
Water by Crackle	In-House	-	-	0.029	>0.05
Contamination Index (IC) %	ASTM D7899-19	-	-	0.2	0.2
Merit of Dispersancy (MD)	ASTM D7899-19	-	-	100	99
Demerit points (DP)	ASTM D7899-19	-	-	0	0
Flash Point 190/160°C °C	ASTM D3828-16a-21-A	-	-	Pass @190	Pass @190

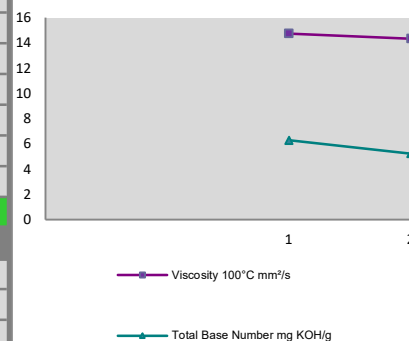
Element Analysis, ppm

Iron ppm	ASTM D5185-18	-	-	1	2
Lead ppm	ASTM D5185-18	-	-	<1	<1
Copper ppm	ASTM D5185-18	-	-	<1	<1
Chromium ppm	ASTM D5185-18	-	-	<1	<1
Aluminium ppm	ASTM D5185-18	-	-	<1	1
Nickel ppm	ASTM D5185-18	-	-	<1	1
Silver ppm	ASTM D5185-18	-	-	<1	1
Tin ppm	ASTM D5185-18	-	-	<1	<1
Silicon ppm	ASTM D5185-18	-	-	5	11
Boron ppm	ASTM D5185-18	-	-	91	42
Sodium ppm	ASTM D5185-18	-	-	4	2
Phosphorus ppm	ASTM D5185-18	-	-	807	704
Zinc ppm	ASTM D5185-18	-	-	782	770
Calcium ppm	ASTM D5185-18	-	-	2155	1974
Barium ppm	ASTM D5185-18	-	-	<1	<1
Magnesium ppm	ASTM D5185-18	-	-	34	107
Vanadium ppm	ASTM D5185-18	-	-	<1	<1
Molybdenum ppm	ASTM D5185-18	-	-	3	14
Titanium ppm	ASTM D5185-18	-	-	<1	<1
Cadmium ppm	ASTM D5185-18	-	-	<1	<1
Potassium ppm	ASTM D5185-18	-	-	3	2
Lithium ppm	ASTM D5185-18	-	-	<1	<1
Manganese ppm	ASTM D5185-18	-	-	1	1

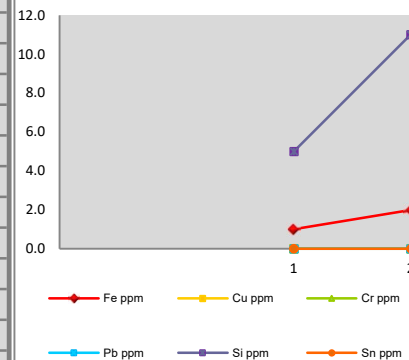
SGS DIAGNOSIS REMARKS

Based on analysis results, there is no abnormal physical properties, wear, contamination noticed. The oil is fit for further use. Please submit sample as per schedule. We will review the results in the next sample.

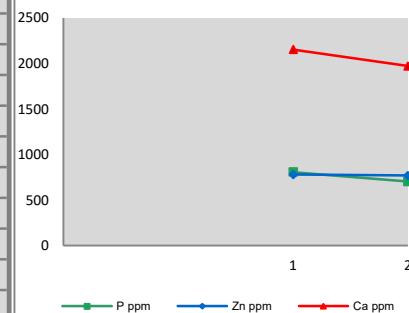
Physical Properties



Wear / Contaminants



Additives



SGS Testing & Control Services Singapore Ptd Ltd

Segar "Gunner" Palaniappan
 Laboratory Manager



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 4269 and when utilizing 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.