



Immersion experiment report
Report No: S024-03766

CARGILL BIOINDUSTRIAL (SHANGHAI) CO., LTD

“LUBRICATING OIL ANALYSIS”

Immersion experiment report

Laboratory SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd
OGC Shanghai Test Centre-Lube Lab
Report date 17th Apr. 2024

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1. Sample Information

Material name: Gear box sightglass cover after application of Loctite sealant and air drying, O-Ring, Seal, Thrust washer, BoWex 38M Nylon.
Sample name: Shell1320+1%W100, Mobil1320+1%W100, Fuchs320+1%W100, Castrol1320+1%W100.
Other information: /
Received: 11/03/2024
Analysed: 12/03/2024-09/04/2024

2. Operating procedure (provided by the customer)

- Photographs were taken of the surface condition of the material prior to immersion in the sample.
- The 5 materials were sequentially infiltrated into each sample and tested at room temperature for 72 hours.
- After the test is completed, the material will be taken out and drained, and the surface of the material will be photographed to determine whether there is any change, if there is no change, then it will be immersed into the next sample to continue the test.



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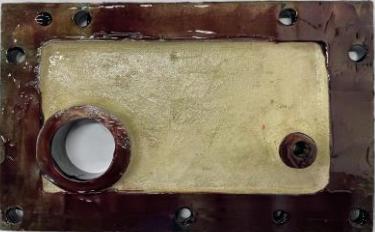
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3 . Results and photos

Immersion experiment			
Number	Material name	Sample name	Immersion results
1	Gear box sightglass cover after application of Loctite sealant and air drying	Shell1320+1%W100	No significant changes in appearance
		Mobil1320+1%W100	No significant changes in appearance
		Fuchs320+1%W100	No significant changes in appearance
		Castrol1320+1%W100	No significant changes in appearance
2	O-Ring	Shell1320+1%W100	No significant changes in appearance
		Mobil1320+1%W100	No significant changes in appearance
		Fuchs320+1%W100	No significant changes in appearance
		Castrol1320+1%W100	No significant changes in appearance
3	Seal	Shell1320+1%W100	No significant changes in appearance
		Mobil1320+1%W100	No significant changes in appearance
		Fuchs320+1%W100	No significant changes in appearance
		Castrol1320+1%W100	No significant changes in appearance
4	Thrust washer	Shell1320+1%W100	No significant changes in appearance
		Mobil1320+1%W100	No significant changes in appearance
		Fuchs320+1%W100	No significant changes in appearance
		Castrol1320+1%W100	No significant changes in appearance
5	BoWex 38M Nylon	Mobil1320+1%W100	No significant changes in appearance
		Fuchs320+1%W100	No significant changes in appearance
		Castrol1320+1%W100	No significant changes in appearance

Note: The immersion experiments are all provided by customers.

Material name:Gear box sightglass cover after application of Loctite sealant and air drying		
Sample name:Shell1320+1%W100		
Test condition:After 72h of immersion at room temperature, visually inspect the surface of the test piece under natural light.		
Pre-immersion	After immersion	Immersion results
		 No significant changes in appearance
Material name:Gear box sightglass cover after application of Loctite sealant and air drying		
Sample name:Mobil1320+1%W100		
Test condition:After 72h of immersion at room temperature, visually inspect the surface of the test piece under natural light.		
Pre-immersion	After immersion	Immersion results
		 No significant changes in appearance
Material name:Gear box sightglass cover after application of Loctite sealant and air drying		
Sample name:Fuchs320+1%W100		
Test condition:After 72h of immersion at room temperature, visually inspect the surface of the test piece under natural light.		
Pre-immersion	After immersion	Immersion results
		 No significant changes in appearance
Material name:Gear box sightglass cover after application of Loctite sealant and air drying		
Sample name:Castrol1320+1%W100		
Test condition:After 72h of immersion at room temperature, visually inspect the surface of the test piece under natural light.		
Pre-immersion	After immersion	Immersion results
		 No significant changes in appearance

Material name:O-Ring Sample name:Shell1320+1%W100		
Test condition:After 72h of immersion at room temperature, visually inspect the surface of the test piece under natural light.		
Pre-immersion	After immersion	Immersion results
		No significant changes in appearance
Material name:O-Ring Sample name:Mobil1320+1%W100		
Test condition:After 72h of immersion at room temperature, visually inspect the surface of the test piece under natural light.		
		No significant changes in appearance
Material name:O-Ring Sample name:Fuchs320+1%W100		
Test condition:After 72h of immersion at room temperature, visually inspect the surface of the test piece under natural light.		
		No significant changes in appearance
Material name:O-Ring Sample name:Castrol1320+1%W100		
Test condition:After 72h of immersion at room temperature, visually inspect the surface of the test piece under natural light.		
		No significant changes in appearance



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Material name: Seal			
Sample name: Shell1320+1%W100			
Test condition: After 72h of immersion at room temperature, visually inspect the surface of the test piece under natural light.			
Pre-immersion	After immersion	Immersion results	
			
No significant changes in appearance			
Material name: Seal			
Sample name: Mobil1320+1%W100			
Test condition: After 72h of immersion at room temperature, visually inspect the surface of the test piece under natural light.			
Pre-immersion	After immersion	Immersion results	
			
No significant changes in appearance			
Material name: Seal			
Sample name: Fuchs320+1%W100			
Test condition: After 72h of immersion at room temperature, visually inspect the surface of the test piece under natural light.			
Pre-immersion	After immersion	Immersion results	
			
No significant changes in appearance			
Material name: Seal			
Sample name: Castrol1320+1%W100			
Test condition: After 72h of immersion at room temperature, visually inspect the surface of the test piece under natural light.			
Pre-immersion	After immersion	Immersion results	
			
No significant changes in appearance			



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Material name:Thrust washer				
Sample name:Shell1320+1%W100				
Test condition:After 72h of immersion at room temperature, visually inspect the surface of the test piece under natural light.				
Pre-immersion	After immersion	Immersion results		
				No significant changes in appearance
Material name:Thrust washer				
Sample name:Mobil1320+1%W100				
Test condition:After 72h of immersion at room temperature, visually inspect the surface of the test piece under natural light.				
Pre-immersion	After immersion	Immersion results		
				No significant changes in appearance
Material name:Thrust washer				
Sample name:Fuchs320+1%W100				
Test condition:After 72h of immersion at room temperature, visually inspect the surface of the test piece under natural light.				
Pre-immersion	After immersion	Immersion results		
				No significant changes in appearance
Material name:Thrust washer				
Sample name:Castrol1320+1%W100				
Test condition:After 72h of immersion at room temperature, visually inspect the surface of the test piece under natural light.				
Pre-immersion	After immersion	Immersion results		
				No significant changes in appearance



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Material name:BoWex 38M Nylon Sample name:Mobil1320+1%W100		
Test condition:After 72h of immersion at room temperature, visually inspect the surface of the test piece under natural light.		
Pre-immersion	After immersion	Immersion results
		No significant changes in appearance
Material name:BoWex 38M Nylon Sample name:Fuchs320+1%W100		
Test condition:After 72h of immersion at room temperature, visually inspect the surface of the test piece under natural light.		
Pre-immersion	After immersion	Immersion results
		No significant changes in appearance
Material name:BoWex 38M Nylon Sample name:Castrol1320+1%W100		
Test condition:After 72h of immersion at room temperature, visually inspect the surface of the test piece under natural light.		
Pre-immersion	After immersion	Immersion results
		No significant changes in appearance

Report Comment:

The test results are responsible for the incoming samples only.

The test report shall only be used for clients' scientific research, teaching, internal quality control, product research and development, etc... and just for internal reference.

Tested by:

Checked by:

Approved by:



Date: 17/04/2024

Date: 17/04/2024

Date: 17/04/2024

END