

# FLAMINGO

## Lubricants



### CERTIFICATE OF ANALYSIS

DATE	: 08.03.2021
CUSTOMER NAME	:
PRODUCT NAME	: FLAMINGO LUBRICANTS
GRADE	: IEC- 60296 -2012 (Uninhibited)
BATCH NO	: TO 210301
PACKAGE	:
GROSS WT.	:
NET WT.	:
MFG. DATE	:
EXP. DATE	:

Sr. no.	TEST PROPERTY	TEST METHOD	SPECIFICATION	TEST RESULTS
<b>1- FUNCTION:</b>				
1	Viscosity at 40 °C	ISO-3104	Max.12 mm <sup>2</sup> /s	9.27
2	Viscosity at -30 °C	ISO-3104	Max.1800 mm <sup>2</sup> /s	1099
3	Pour Point, °C	ISO-3016	Max. -40°C max	-48
4	Water content	IEC 60814	Max. 30 mg/kg (for bulk supply)	18
		IEC 60814	Max.40 mg/kg (for delivery in drums)	
5	Break down voltage, kV	IEC 60156	Min.30 kV	78
		IEC 60156	Min.70 kV (after lab treatment)	-
6	Density @ 20 °C	ISO-3675 OR ISO 12185	Max. 0.895 g/ml	0.8783
	Density @ 29.5 °C	ISO-3675 OR ISO 12185		0.8722
7	DDF at 90 °C	IEC 60247 OR IEC 61620	Max. 0.005	0.00061
8	Particle content	ISO 60970	No general requirement	-
<b>2.REFINING / STABILITY</b>				
9	Appearance	-	Clear,free from sediment and suspended matter	Clear,free from sediment and suspended matter
10	Acidity	IEC 62021- 1 or 2	Max. 0.01 mg KOH /gm	0.0055
11	Interfacial Tension	EN 14210 or ASTM D 971	No general requirement	-
12	Total Sulphur Content	IP 373 OR ISO 14596	No general requirement	-
13	Corrosive sulphur	DIN 51353	Non corrosive	Non corrosive
14	Potentially Corrosive sulphur	IEC 62535	Non corrosive	Non corrosive
15	DBDS	IEC 62697-1 (in preparation)	Not Detectable(< 5mg/kg)	Not Present
16	Inhibitors of IEC 60666	IEC 60666	(U) Uninhibited oil; not detectable (<0.01)	Not Present
			(T) Trace inhibited Oil; <0.08%	Not Present
			(I) Inhibited Oil; <0.08% -0.40 %	Not Present
17	Metal Passivator Additives of IEC 60666	IEC 60666	Not Detectable,< 5mg/kg) or as agreed upon with the purchaser	Not Present
18	Other Additives	-	-	Not Present
19	2-Furfural Content and Related compounds	IEC 61198	Not Detectable,< 0.05 mg/kg) for each individual compound	Not Present
20	stray gassing		No general requirement	-
<b>3.PERFORMANCE</b>				
21	Oxidation Stability	IEC 61125 :1992 (method C) (U) Uninhibited oil : 164 hr (T) Trace inhibited Oil:332 hr (I) Inhibited Oil: 500 hr		
a)	Total acidity	1.9.4 of IEC 61125 :1992	Max 1.2 mg KOH / gm	0.52
b)	Sludge content	1.9.1 of IEC 61125 :1992	Max 0.8 %	0.33
c)	Dielectric dissipation factor @ 90 °C	1.9.6 of IEC 61125 :1992	Max 0.5	0.018
22	Gassing tendency	Amendment 1 (2004) + IEC 60247		
23	ECT	IEC 60628 :1985, Method A	No general requirement	-
			No general requirement	-
<b>4.HEALTH ,SAFTY &amp; ENVIONRMENT</b>				
24	Flash Point (PMCC)	ISO 2719	Min. 135 °C	162
25	Polycyclic Aromatic Content	IP 346	Max. 3.0%	0.62
26	PCB Content, ppm	IEC 61619	Not- Detectable (< 2mg/kg)	Not Present

Remarks:- Conforms to IEC 60296 (Edition 4.0 2012-02)- Uninhibited

Tested by:- Mahendra Vhatkar

Approved by  
N.L.SAWANT  
SR.CHEMIST