

Customer number :

PIPELINE

Registration number : 02064700/8A11

Sample Number :

PIL529

this number is mandatory on the label of your next sample

Submission date :

12/07/2024

PIPELINE INFRASTRUCTURE LIMITED

Receipt date:

16/07/2024

Report date

Lubricant in use :

NYCO TURBONYCOIL 600

7 th UNIT ,703, TOWER 3

Equipment Reference :

PIL-CS01-GTC-C_Gadimoga

EQUINOX BUSINESS PARK OFF

Equipment description :

GAS TURBINE COMPRESSOR

BKC KURLA WEST,

Component description :

FL-2 DRAIN

40070 MUMBAI

INDIA



SGS CONTACTS

SGS Contact: Rohit Deshmukh
Phone : +91 22 6151 7838SGS Web site :
<https://sofia.sgs.com>

COMMENTS & RECOMMENDATIONS

Sample PIL529

The Sample test results all indicate that the equipment and lubricant are both performing within normal working limits with no indication of abnormal wear or equipment stress. Please continue operating your equipment as normal.

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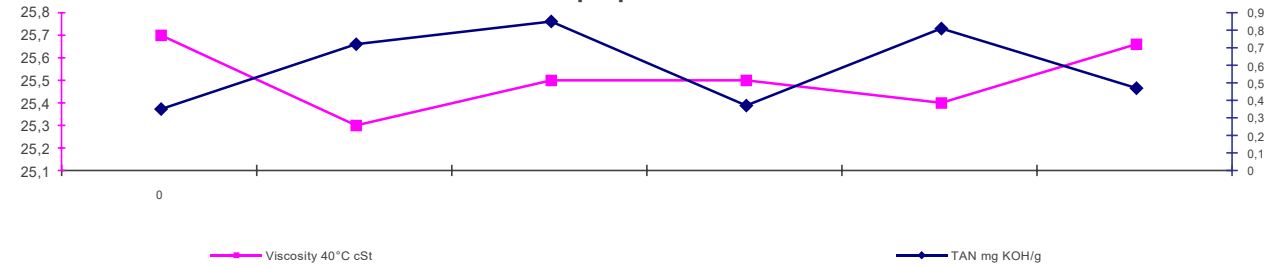
RESULTS

Sample Number	Limits		PIL529 25-Jun-24	PIL487 9-May-24	PIL451 2-Apr-24	PIL436 21-Mar-24	PIL412 24-Feb-24
Sampling date (dd/mm/yy)			28795	28686	28649	28361	28023
Equipment life (Km or Hours)			3845	3736	3699	3411	3073
Oil life (Km or Hours)	Amber	Red					
Viscosity 40°C ASTM D445							
Viscosity 40°C cSt	21.6-30.0		25.66	25.40	25.5	25.5	25.3
Viscosity 100°C ASTM D445							
Viscosity 100 °C cSt			5.00	5.11	5.1	5.1	5.1
Viscosity Index ASTM D2270							
Viscosity Index			123	134	136	138	138
TAN ASTM D664							
TAN mg KOH/g	Max 1.0		0.47	0.81	0.37	0.85	0.72
Water Content ASTM D6304							
Water content ppm	Max 1000		561.000	707.000	590.000	446.000	442.000
Particle Count NAS 1638							
Size 5-15µ			24400	3400	8200	13500	18100
Size 15-25µ			3300	700	400	1400	2200
Size 25-50µ			800	400	100	600	600
Size 50-100µ			100	0	0	100	0
Size >100			0	0	0	0	0
Class NAS 1638	Max 7		7	6	6	6	7
Flash point ASTM D92							
Flash point °C			IMP	IMP	IMP	IMP	IMP
Demulsibility. ASTM D1401							
Ratio:Oil/Water/Emul. ml			40/40/0	40/40/0	55/25/0	40/40/0	40/40/0
Time for separation min			25	10	30	25	25
Test temperature °C			54	54	54	54	54
Colour ASTM D1500							
Colour	Max 4		L4.5	L4.5	L3.5	L3.5	L4.0
Elements ASTM D5185-05							
Al ppm	Max 7		1	1	1	4	0
Ba ppm			0	0	0	0	1
B ppm			5	0	0	0	1
Cd ppm			0	0	0	0	0
Ca ppm			2	2	4	2	3
Cr ppm	Max 10		0	0	0	0	0
Cu ppm	Max 20		0	0	0	0	0
Fe ppm	Max 14		0	0	0	0	1
Pb ppm	Max 5		0	0	5	4	1
Mg ppm	Max 10		0	0	0	0	1
Mn ppm			0	0	0	0	0
Mo ppm	Max 9		0	0	0	0	0
Ni ppm	Max 9		1	1	1	1	1
P ppm			1976	2097	2280	2180	2123
Si ppm	Max 65		0	4	0	0	1

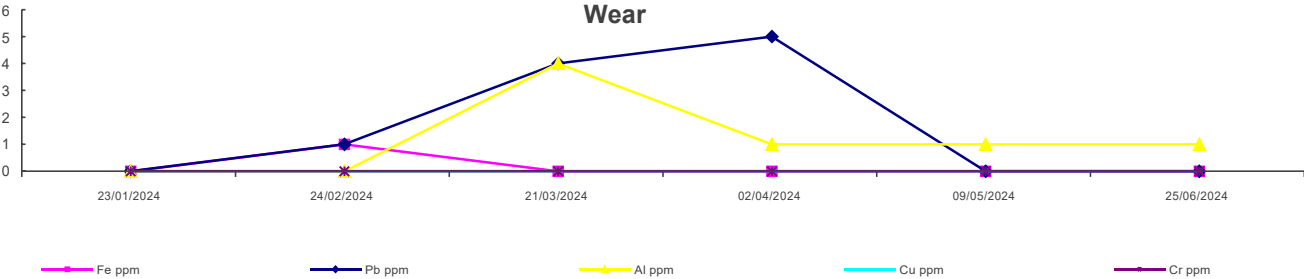
Na ppm			0	0	0	0	0
Sn ppm	Max 40		0	1	0	0	1
Ti ppm	Max 9		0	0	0	0	0
V ppm			0	0	0	0	0
Zn ppm	Max 23		1	0	2	0	2
Condition VISUAL							
Appearance			CLEAR	CLEAR	CLEAR	CLEAR	CLEAR
Fire Point CLEVELAND ASTM D92							
Fire Point °C			IMP	IMP	IMP	IMP	IMP
Chloride ASTM D5808							
Chloride mg/kg			3.0	3.0	1.0	4.0	3.0

Graphical Representation

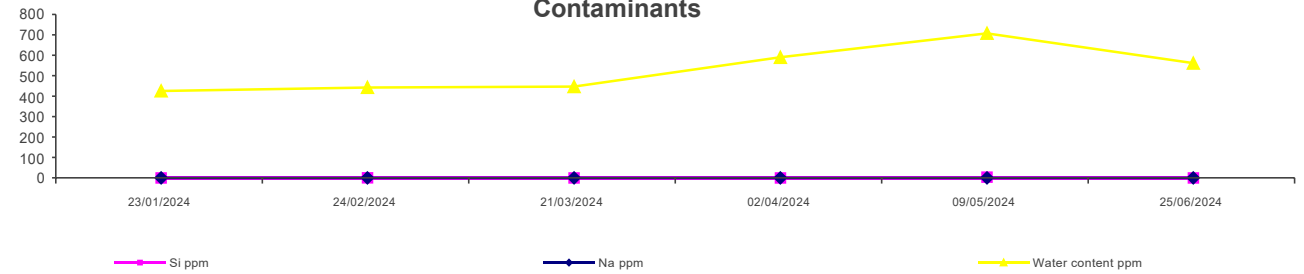
Oil properties



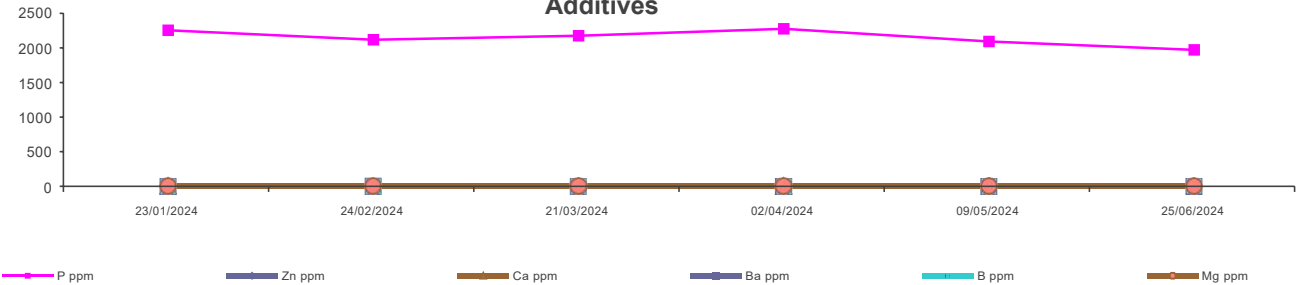
Wear



Contaminants



Additives



Particle count

