

Equipment - Component
Circulation System Feed Pump/Centrifugal Pump

Customer
UNKNOWN

Manufacturer - Model
Flowserve Corporation - 6X10.25HDO-8STG

LubeAnalyst Code

Registered Lubricant
Shell - Turbo S4 GX 46



Diagnosis

Attention

Sample Information					
Sample Number	1458422	458422	434012	420766	1408776
Sample Condition					
Sample Date	20/Apr/2022	20/Apr/2022	20/Oct/2021	20/Jul/2021	21/Apr/2021
Sample Received	15/May/2022	05/May/2022	09/Nov/2021	03/Aug/2021	17/May/2021
Sample Completed	16/May/2022	09/May/2022	22/Nov/2021	20/Aug/2021	01/Jun/2021
Lubricant in use	Turbo S4 GX 46	Turbo T 46	Turbo T 46	Turbo T 46	Turbo T 46
Equipment Life					
Lubricant Life					
Top-up Volume					
Physical Characteristics					
Viscosity 40°C cSt	43.43	43.43	45.1	45.24	45.02
Appearance	Clear and Normal	Clear and Normal	Clear and Normal	Clear and Normal	Clear and Normal
TAN (D 664) mg KOH/g	0.1	0.1	0.05	0.04	0.07
Wear					
Iron (Fe) ppm	<1	<1	<1	<1	<1
Chromium (Cr) ppm	<1	<1	<1	<1	<1
Tin (Sn) ppm	<1	<1	<1	<1	<1
Lead (Pb) ppm	<1	<1	<1	<1	<1
Copper (Cu) ppm	<1	<1	<1	<1	<1
Nickel (Ni) ppm	<1	<1	<1	<1	<1
Aluminium (Al) ppm	<1	<1	<1	<1	<1
Vanadium (V) ppm	<1	<1	<1	<1	<1
Silver (Ag) ppm	<1	<1	<1	<1	<1
Titanium (Ti) ppm	<1	<1	<1	<1	<1
Contamination					
Water Content (KF) ppm vol	72	72	68	385	64
Sodium (Na) ppm	<1	<1	<1	<1	<1
Silicon (Si) ppm	9	9	<1	<1	<1
Potassium (K) ppm	<1	<1	<1	<1	<1
ISO 4406:1989	18/13	18/13	18/14	15/11	16/12
NAS 1638	10	10	10	7	9
NAS 1638 5µ->15µ	140810	140810	242570	24230	43150
NAS 1638 15µ->25µ	6450	6450	12350	1290	3750
NAS 1638 25µ->50µ	1260	1260	2200	180	1760
NAS 1638 50µ->100µ	20	20	170	20	450
NAS 1638 100µ->	0	0	10	0	110
Additives					
Calcium (Ca) ppm	<1	<1	4	<1	<1
Zinc (Zn) ppm	<1	<1	4	2	2
Phosphorus (P) ppm	70	70	2	<1	<1
Barium (Ba) ppm	<1	<1	<1	<1	<1
Molybdenum (Mo) ppm	<1	<1	<1	<1	<1
Magnesium (Mg) ppm	<1	<1	<1	<1	<1
Boron (B) ppm	<1	<1	<1	<1	<1
Oil Condition					
Foam Seq 1 (Tend/Stab) ml	UTT*	UTT*	UTT*	UTT*	UTT*

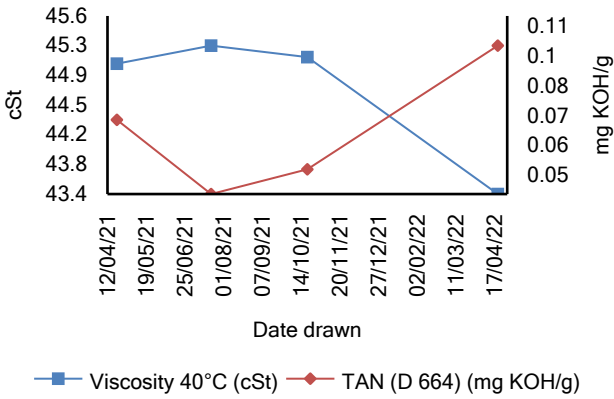


Foam Seq 2 (Tend/Stab) ml	UTT*	UTT*	UTT*	UTT*	UTT*
Foam Seq 3 (Tend/Stab) ml	UTT*	UTT*	UTT*	UTT*	UTT*

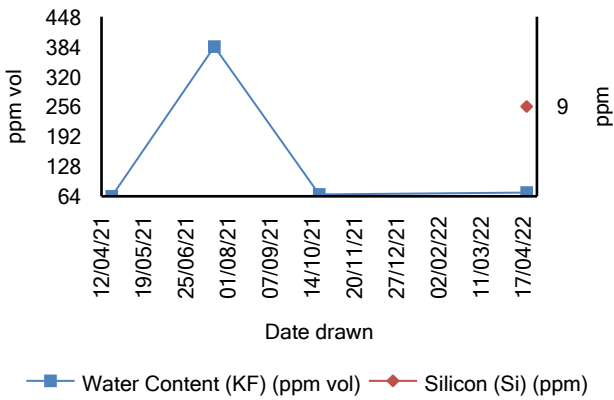


Graphs

Physical Characteristics



Contamination



Additives

