

Equipment - Component  
Equipments on rig ████ - Unspecified Port crane Hydraulic-Skagit 363

Site/Vessel Name - Code

Customer

Manufacturer - Model  
Unspecified - Unspecified

LubeAnalyst Code

Registered Lubricant  
Shell - Tellus S2 M 68








Normal

## Diagnosis

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.

### Sample Information

Sample Number	9110112601	9110119169	9110119174	9110105354	9110109900
Sample Condition					
Sample Date	11/Dec/2019	28/Sep/2019	31/Jul/2019	21/May/2019	18/Mar/2019
Sample Received	17/Jan/2020	21/Nov/2019	26/Sep/2019	06/Aug/2019	23/Apr/2019
Sample Completed	20/Jan/2020	27/Nov/2019	30/Sep/2019	08/Aug/2019	25/Apr/2019
Lubricant in use	Tellus S2 M 68	Tellus S2 M 68	Tellus S2 M 68	Tellus S2 M 68	Tellus S2 M 68
Equipment Life					
Lubricant Life					
Top-up Volume					

### Physical Characteristics

Viscosity 40°C cSt	68.0	70.2	71.2	70.8	67.7
Appearance	Clear	Clear	Clear	Clear	Clear
Flash Point (Setaflash) °C	>180	>180	>180	>180	>180
TAN (D 664) mg KOH/g	0.44	0.60	0.36	0.38	0.35

### Wear

Iron (Fe) ppm	3	18	17	14	3
Chromium (Cr) ppm	0	0	0	0	0
Tin (Sn) ppm	0	0	0	6	0
Lead (Pb) ppm	1	0	4	0	0
Copper (Cu) ppm	7	32	30	29	5
Nickel (Ni) ppm	0	0	0	1	2
Aluminium (Al) ppm	1	0	0	0	1
Vanadium (V) ppm	0	0	0	0	0
Silver (Ag) ppm	0	0	0	1	0
Titanium (Ti) ppm	0	0	0	0	0

### Contamination

Water Content (Aquatest) %	<0.05	<0.05	<0.05	<0.05	<0.05
Sodium (Na) ppm	0	0	0	0	0
Silicon (Si) ppm	1	2	3	1	1
Potassium (K) ppm	0	0	0	0	0

### Additives

Calcium (Ca) ppm	39	42	12	6	54
Zinc (Zn) ppm	326	265	246	238	310
Phosphorus (P) ppm	283	274	273	251	249
Barium (Ba) ppm	0	1	0	0	0
Molybdenum (Mo) ppm	1	1	0	0	0
Magnesium (Mg) ppm	0	0	5	0	5
Boron (B) ppm	0	2	0	6	0

Graphs

