



Site 1

Location: COS NI

Unit ID: **Hydraulic system 2**

Model:

Component Type: Hydraulic, Mineral



Observations :
 ISO 4 is severely high; ISO 6 is severely high; TAN, mgKOH/g is severely high

Diagnostics :

- Suspect TAN increase due to overheating, additive depletion or lubricant mixup.
- Suspect source of particulate to be dirt, dust, or worn seal; Secondary sources include filter bypass or clogged filters.

Recommended Actions :

- Change oil with approved lubricant.
- Clean system oil by filtration or centrifuging.

Additional Recommendations :

26 May 2021

Oil	Mobil DTE FM 320	Sample ID	14151-65			
Note:		Sampled on	26 May 2021			
		Received on	26 May 2021			
		Asset Operating (hours)				
		Oil Operating (hours)				
		Top up (l)				
Wear	Fatigue >20u	part./ml	1.001555			
	Non-Metallic >20u	part./ml	0.0			
	Large Fe ppm	ppm	0.0			
	Fe Wear Severity Index		0.0			
	Total Fe > 100u ppm		0.0			
Contamination	ISO 4406 Code (>4µm)		18.0			
	ISO 4406 Code (>6µm)		16.0			
	ISO 4406 Code (>14µm)		10.0			
	Cnts >4	part./ml	1665.534			
	Cnts >6	part./ml	438.8134			
	Cnts >14	part./ml	7.010885			
	Cutting >20u	part./ml	1.001555			
	Sliding >20u	part./ml	3.004665			
	Total Water, ppm	ppm	0.0			
	Bubbles		1.277598			
Water ppm		7.409224				
Large Fe %		0.0				
Chemistry	TAN	mg KOH/g	1.770361			
	Oxidation	abs/0.1mm	8.223195			
	Visc 40	cSt	340.51			
	Visc 100	cSt	35.2			
	Fluid Integrity		83.26946			

Date 26 May 2021 Lab Supervisor _____

Particle analysis and shape classification with LaserNet Fines-C

Method: ML. Analysis refers to particles $\geq 20 \mu\text{m}$

Cutting >20u

ml-el.Cutting
>20ReportDescription

Scale 63:1
(1 cm equals to 158 μm)

1 part./ml

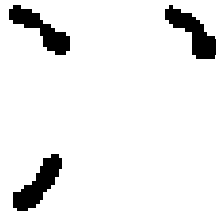


Sliding >20u

ml-el.Sliding
>20ReportDescription

Scale 63:1
(1 cm equals to 158 μm)

3 part./ml



Fatigue >20u

ml-el.Fatigue
>20ReportDescription

Scale 63:1
(1 cm equals to 158 μm)

1 part./ml

