

Area

**Gas Compression [450339566]**

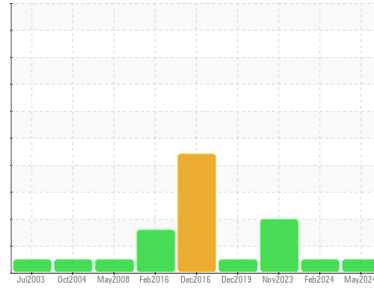
Machine Id  
**Hose Reel - Stbd Utilities Loading (Hyd Power Unit) (S/N Sample Tag XX-00002)**

Component

**Hydraulic System**

Fluid

**AW HYDRAULIC OIL ISO 22 (--- LTR)**



**DIAGNOSIS**

**Recommendation**

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

**Wear**

All component wear rates are normal.

**Contamination**

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

**Fluid Condition**

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

**SAMPLE INFORMATION**

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>PC0080777</b>	PC0076417	PC
Sample Date	Client Info	<b>21 May 2024</b>	16 Feb 2024	20 Nov 2023
Machine Age	hrs	<b>0</b>	0	0
Oil Age	hrs	<b>0</b>	0	0
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>NORMAL</b>	NORMAL	ABNORMAL

**CONTAMINATION**

method	limit/base	current	history1	history2
Water	WC Method >0.05	<b>NEG</b>	NEG	NEG

**WEAR METALS**

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >20	<b>0</b>	0	<1
Chromium	ppm ASTM D5185(m) >10	<b>0</b>	0	0
Nickel	ppm ASTM D5185(m) >10	<b>0</b>	0	<1
Titanium	ppm ASTM D5185(m)	<b>0</b>	0	0
Silver	ppm ASTM D5185(m)	<b>0</b>	0	<1
Aluminum	ppm ASTM D5185(m) >10	<b>0</b>	<1	0
Lead	ppm ASTM D5185(m) >20	<b>0</b>	<1	<1
Copper	ppm ASTM D5185(m) >20	<b>&lt;1</b>	<1	<1
Tin	ppm ASTM D5185(m) >10	<b>0</b>	0	0
Antimony	ppm ASTM D5185(m)	<b>0</b>	0	0
Vanadium	ppm ASTM D5185(m)	<b>0</b>	0	0
Beryllium	ppm ASTM D5185(m)	<b>0</b>	0	0
Cadmium	ppm ASTM D5185(m)	<b>0</b>	0	0

**ADDITIVES**

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m) 5	<b>&lt;1</b>	0	<1
Barium	ppm ASTM D5185(m) 5	<b>0</b>	0	<1
Molybdenum	ppm ASTM D5185(m) 5	<b>0</b>	0	0
Manganese	ppm ASTM D5185(m)	<b>0</b>	0	0
Magnesium	ppm ASTM D5185(m) 25	<b>&lt;1</b>	0	0
Calcium	ppm ASTM D5185(m) 200	<b>48</b>	49	49
Phosphorus	ppm ASTM D5185(m) 300	<b>325</b>	336	327
Zinc	ppm ASTM D5185(m) 370	<b>413</b>	415	419
Sulfur	ppm ASTM D5185(m) 2500	<b>777</b>	798	754
Lithium	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	<1

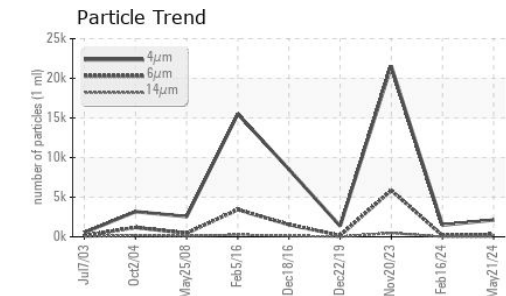
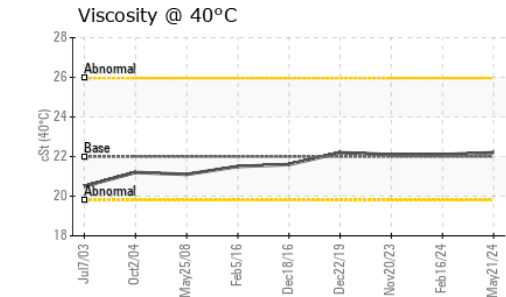
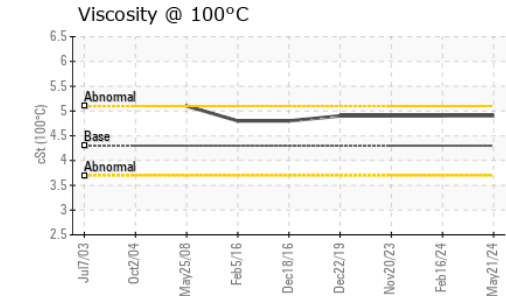
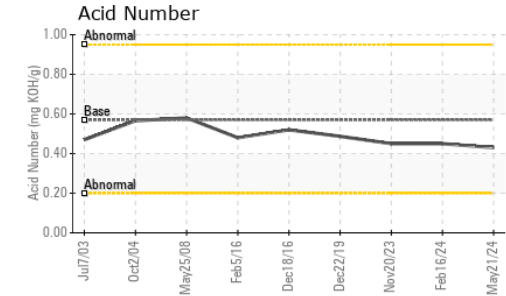
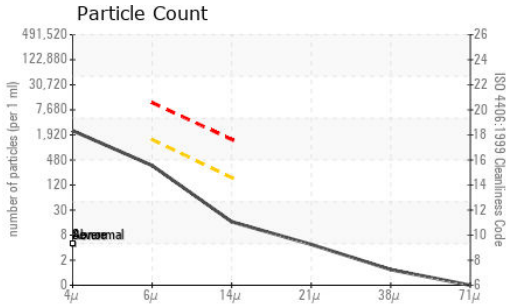
**CONTAMINANTS**

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >15	<b>0</b>	0	0
Sodium	ppm ASTM D5185(m)	<b>&lt;1</b>	0	<1
Potassium	ppm ASTM D5185(m) >20	<b>&lt;1</b>	<1	0

**FLUID CLEANLINESS**

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	<b>2126</b>	1476	21538
Particles >6µm	ASTM D7647 >1300	<b>311</b>	168	▲ 5864
Particles >14µm	ASTM D7647 >160	<b>14</b>	8	▲ 480
Particles >21µm	ASTM D7647 >40	<b>4</b>	2	▲ 136
Particles >38µm	ASTM D7647 >10	<b>1</b>	0	● 19
Particles >71µm	ASTM D7647 >3	<b>0</b>	0	2
Oil Cleanliness	ISO 4406 (c) >--/17/14	<b>18/15/11</b>	18/15/10	▲ 22/20/16

# OIL ANALYSIS REPORT

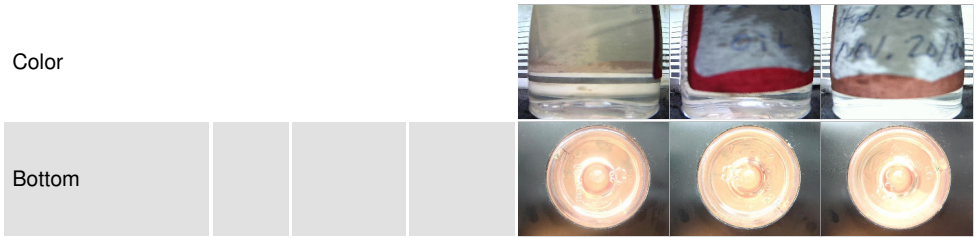


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.57	<b>0.43</b>	0.45	0.45

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>0.05	<b>NEG</b>	NEG	NEG
Free Water	scalar	Visual*		<b>NEG</b>	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	22	<b>22.2</b>	22.1	22.1
Visc @ 100°C	cSt	ASTM D7279(m)	4.3	<b>4.9</b>	4.9	4.9
Viscosity Index (VI)	Scale	ASTM D2270*	100	<b>151</b>	152	152

## SAMPLE IMAGES



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0080777  
**Lab Number** : **02640245**  
**Unique Number** : 5789407  
**Test Package** : MAR 2 ( Additional Tests: KV100, VI )

**Suncor - Terra Nova Projects**  
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To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.