

OIL ANALYSIS REPORT

Area Gas Compression [450339566]

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

Hydraulic System

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

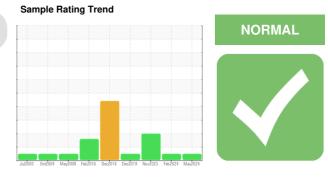
All component wear rates are normal.

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 INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PC0080777	PC0076417	PC
Sample Date		Client Info		21 May 2024	16 Feb 2024	20 Nov 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	0 N/A	N/A
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	0	0	<1
Chromium	ppm	ASTM D5185(m)		0	0	0
Nickel	ppm	ASTM D5185(m)	>10	0	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	<1
Aluminum	ppm	ASTM D5185(m)	>10	0	<1	0
Lead	ppm	ASTM D5185(m)	>20	0	<1	<1
Copper	ppm	ASTM D5185(m)		<1	<1	<1
Tin	ppm	ASTM D5185(m)	>10	0	0	0
Antimony	ppm	ASTM D5185(m)	>10	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
-				0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES	ррш	method	limit/base	current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185(m)	5	current	history1 0	history2 <1
ADDITIVES Boron Barium		method ASTM D5185(m) ASTM D5185(m)	5 5	current <1 0	history1 0 0	history2 <1 <1
ADDITIVES Boron Barium Molybdenum	ppm ppm ppm	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	5	current <1 0 0	history1 0 0 0	history2 <1 <1 0
ADDITIVES Boron Barium Molybdenum Manganese	ppm ppm	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	5 5 5	current <1 0 0 0	history1 0 0 0 0	history2 <1 <1 0 0
ADDITIVES Boron Barium Molybdenum	ppm ppm ppm	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	5 5 5 25	<pre>current <1 0 0 0 <<1 </pre>	history1 0 0 0 0 0 0	history2 <1 <1 0 0 0
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	5 5 5	current <1 0 0 0	history1 0 0 0 0	history2 <1 <1 0 0
ADDITIVES Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm ppm	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	5 5 5 25 200 300	<pre>current <1 0 0 0 <<1 </pre>	history1 0 0 0 0 0 0 49 336	history2 <1 <1 0 0 0 0 49 327
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	5 5 25 200	current <1 0 0 0 48	history1 0 0 0 0 0 0 49	history2 <1 <1 0 0 0 0 49
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm	method ASTM D5185(m)	5 5 5 25 200 300	current <1 0 0 0 <1 48 325 413 777	history1 0 0 0 0 0 0 49 336 415 798	history2 <1 <1 0 0 0 0 49 327 419 754
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m)	5 5 25 200 300 370	current <1 0 0 0 <1 48 325 413	history1 0 0 0 0 0 0 49 336 415	history2 <1 <1 0 0 0 0 49 327 419
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m)	5 5 25 200 300 370	current <1 0 0 0 <1 48 325 413 777 <1 current	history1 0 336 415 798 <1	history2 <1 <1 0 0 0 49 327 419 754 <1 +istory2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m)	5 5 25 200 300 370 2500	current <1 0 0 0 <1 48 325 413 777 <1 current	history1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 49 336 415 798 <1	<1
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m)	5 5 25 200 300 370 2500 limit/base	<1 0 0 0 0 <1 48 325 413 777 <1 Current	history1 0 336 415 798 <1	history2 <1 <1 0 0 0 49 327 419 754 <1 +istory2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m)	5 5 25 200 300 370 2500 limit/base	current <1 0 0 0 <1 48 325 413 777 <1 current	history1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 49 336 415 798 <1 history1 0	<1 <1 0 0 0 0 49 327 419 754 <1 history2 0
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m)	5 5 5 25 200 300 370 2500 limit/base >15	current <1 0 0 0 <1 48 325 413 777 <1 current 0 <1	history1 0 0 0 0 0 0 0 0 0 0 0 0 336 415 798 <1	<1
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m)	5 5 5 25 200 300 370 2500 limit/base >15	current <1 0 0 0 <1 48 325 413 777 <1 current 0 <1 <1 <1 <1 <1 <1 <1	history1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 336 415 798 <1	<1
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m)	5 5 5 25 200 300 370 2500 imit/base >15 >20 imit/base	current <1 0 0 0 <1 48 325 413 777 <1 current 0 <1 <1 current 0 <1 <1 <1 current	history1 0 0 0 0 0 0 0 0 0 0 0 0 0 415 798 <1	<1
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon Sodium Potassium FLUID CLEANI Particles >4µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m)	5 5 5 25 200 300 370 2500 imit/base >15 >20 imit/base	current <1 0 0 0 <1 48 325 413 777 <1 current 0 <1 current 0 <1 current 2126	history1 0 0 0 0 0 0 0 0 0 0 0 0 0 415 798 <1	<1
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon Sodium Potassium FLUID CLEANI Particles >4µm Particles >6µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m)	5 5 5 200 300 370 2500 imit/base >15 >20 imit/base >15 >20	current <1 0 0 0 <1 48 325 413 777 <1 ourrent 0 <1 current 0 <1 current 2126 311	history1 0 0 0 0 0 0 0 0 0 336 415 798 <1	history2 <1 <1 0 0 0 49 327 419 754 <1 history2 0 <1 0 history2 21538 ▲ 5864
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon Sodium Potassium FLUID CLEANII Particles >6µm Particles >14µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m) ASTM D7647 ASTM D7647 ASTM D7647	5 5 5 200 300 370 2500 imit/base >15 >20 imit/base >15 >20	current <1 0 0 0 <1 48 325 413 777 <1 0 <1 0 <1 0 <1 0 <1 current 0 <1 current 2126 311 14	history1 0 0 0 0 0 0 0 0 0 336 415 798 <1	<1
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon Sodium Potassium FLUID CLEANI Particles >4µm Particles >14µm Particles >21µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m) ASTM D7647	5 5 5 25 200 300 370 2500 imit/base >15 >20 imit/base >15 >10 >160 >40 >10	current <1 0 0 0 <1 48 325 413 777 <1 current 0 <1 current 0 <1 current 2126 311 14 4	history1 0 0 0 0 0 0 0 0 0 336 415 798 <1	<1
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon Sodium Potassium FLUID CLEANI Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m) ASTM D7647 ASTM D7647	5 5 5 25 200 300 370 2500 imit/base >15 >20 imit/base >15 >10 >160 >40 >10	current <1 0 0 <1 48 325 413 777 <1 current 0 <1 current 0 <1 current 2126 311 14 4 1 0 18/15/11	history1 0 0 0 0 0 0 0 0 336 415 798 <1	history2 <1

Report Id: TERHAM [WCAMIS] 02640245 (Generated: 06/07/2024 11:20:08) Re



OIL ANALYSIS REPORT

FLUID DEGRADATION method

scalar

scalar

scalar

scalar

scalar

scalar

scalar

scalar

scalar

cSt

cSt

Scale

Acid Number (AN) VISUAL White Metal

Yellow Metal

Precipitate

Silt

Debris

Odor

Color

Bottom

Sand/Dirt

Appearance

Free Water

Visc @ 40°C

Visc @ 100°C

Viscosity Index (VI)

SAMPLE IMAGES

Emulsified Water

FLUID PROPERTIES

mg KOH/g ASTM D974*

Visual*

Visual*

Visual*

Visual*

Visual*

Visual*

Visual*

Visual*

Visual*

ASTM D7279(m)

ASTM D7279(m)

ASTM D2270*

scalar Visual*

0.57

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

>0.05

22

4.3

100

0.43

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

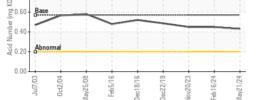
NEG

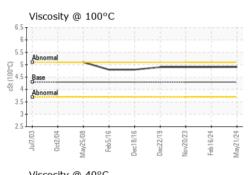
22.2

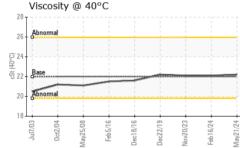
4.9

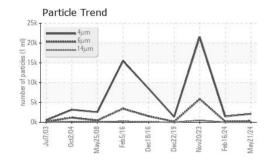
151

91,520 T	ticle Cou	inc			T ²⁶
22,880 -					-24
30,720					22 8
7,680-					-20
1,920					-22 20 400: 1999 -18 1999 -16 Creaminess -14 Inness -12 Creaminess -12 Creaminess -12 Creaminess -10 Creaminess
480 -	1				-16 😴
120-					-14
30 -		1			-12 🖁
8 Sbream	mal	-			-10 8
2 -					-8
0. 4µ	6µ	14µ	21µ	38µ	71µ
Acie 1.00 T <u>A</u> bre	d Numbe	er			
•					
(В/НО) Вш) за					
2 20,60 Base					











Laboratory : WearCheck - C8 CALA Sample No. : PC0080777 Lab Number : 02640245 ISO 17025:2017 Accredited Unique Number : 5789407 Laboratory Test Package : MAR 2 (Additional Tests: KV100, VI

8-1175 Appleby Line, B	urlington, ON L7L 5H9
Received	: 06 Jun 2024
Tested	: 07 Jun 2024
Diagnosed	: 07 Jun 2024 - Kevin Marson
nal Tests: KV100_VI.)	

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.

Suncor - Terra Nova Projects Scotia Centre, 235 Water Strret St. John`s, NL

CA A1C 1B6 Contact: Josh Hynes joshynes@suncor.com T: (709)778-3575 F: (709)724-2835

		history2
THE REAL PROPERTY IN CONTRACTOR		Hed. Od s Nev. 20/0

0.45

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

22.1

4.9

152

0.45

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

22.1

4.9

152