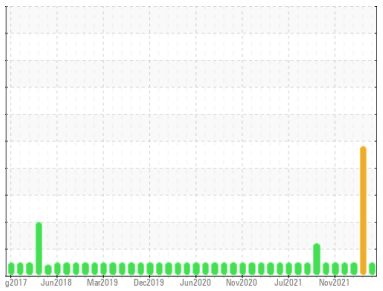
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Area
Cranes [450207985]
Machine Id
Crane - Fwd Hydraulic Hoisting (S/N Sample Tag MA-04003-S3)
Component
Hydraulic System
Fluid
PETRO CANADA ATF DEXRON III/MERCON (800 LTR)

DIAGNOSIS

Recommendation
Resample at the next service interval to monitor.

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		**PC0076450**	PC	PC0053013
Sample Date		Client Info		**04 Oct 2023**	13 Aug 2023	02 May 2023
Machine Age	hrs	Client Info		**0**	0	0
Oil Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**NORMAL**	SEVERE	NORMAL

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		**0**	0	0
Iron	ppm	ASTM D5185(m)	>20	**<1**	4	2
Chromium	ppm	ASTM D5185(m)	>10	**0**	<1	0
Nickel	ppm	ASTM D5185(m)	>10	**<1**	<1	<1
Titanium	ppm	ASTM D5185(m)		**0**	0	0
Silver	ppm	ASTM D5185(m)		**<1**	0	0
Aluminum	ppm	ASTM D5185(m)	>10	**0**	<1	<1
Lead	ppm	ASTM D5185(m)	>20	**2**	4	4
Copper	ppm	ASTM D5185(m)	>20	**2**	6	5
Tin	ppm	ASTM D5185(m)	>10	**0**	<1	<1
Antimony	ppm	ASTM D5185(m)		**0**	0	<1
Vanadium	ppm	ASTM D5185(m)		**0**	0	0
Beryllium	ppm	ASTM D5185(m)		**0**	0	0
Cadmium	ppm	ASTM D5185(m)		**0**	0	0

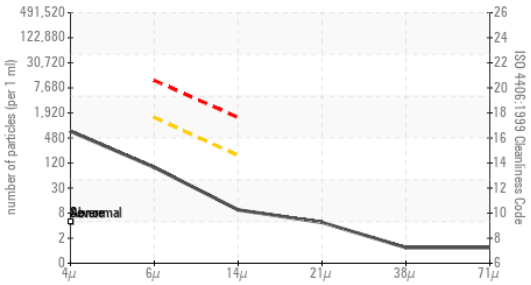
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	130	**104**	75	73
Barium	ppm	ASTM D5185(m)	1.0	**<1**	<1	<1
Molybdenum	ppm	ASTM D5185(m)	0.0	**0**	0	0
Manganese	ppm	ASTM D5185(m)		**0**	0	0
Magnesium	ppm	ASTM D5185(m)	1.0	**<1**	1	<1
Calcium	ppm	ASTM D5185(m)	20	**75**	60	59
Phosphorus	ppm	ASTM D5185(m)	280	**233**	284	275
Zinc	ppm	ASTM D5185(m)	10	**37**	130	90
Sulfur	ppm	ASTM D5185(m)	440	**752**	820	798
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	**3**	4	4
Sodium	ppm	ASTM D5185(m)		**1**	3	2
Potassium	ppm	ASTM D5185(m)	>20	**0**	2	1

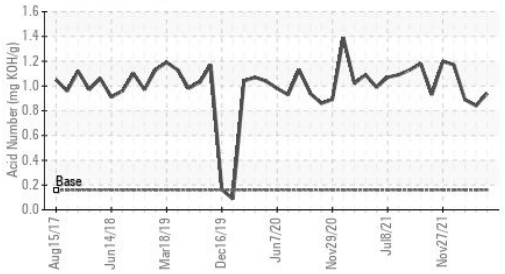
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		**610**	109564	2354
Particles >6µm		ASTM D7647	>1300	**83**	⬢ 30308	226
Particles >14µm		ASTM D7647	>160	**8**	▲ 925	12
Particles >21µm		ASTM D7647	>40	**4**	▲ 170	4
Particles >38µm		ASTM D7647	>10	**1**	5	0
Particles >71µm		ASTM D7647	>3	**1**	0	0
Oil Cleanliness		ISO 4406 (c)	>--/17/14	**16/14/10**	⬢ 24/22/17	18/15/11

OIL ANALYSIS REPORT

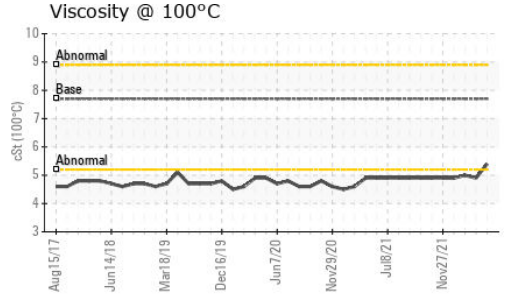
Particle Count



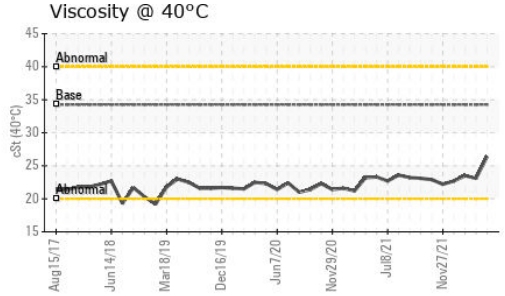
Acid Number



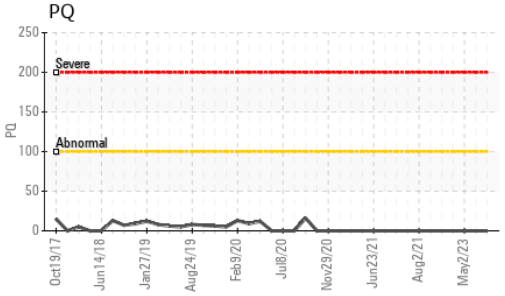
Viscosity @ 100°C



Viscosity @ 40°C



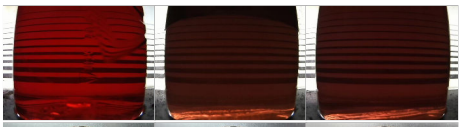
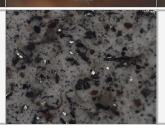
PQ



FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.16	**0.94**	0.84	0.89

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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	34.26	**26.4**	23.1	23.5
Visc @ 100°C	cSt	ASTM D7279(m)	7.7	**5.4**	4.9	5
Viscosity Index (VI)	Scale	ASTM D2270*	210	**144**	140	144

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					
PrtFilter			*no image*		*no image*

ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0076450 **Received** : 18 Oct 2023
Lab Number : 02590060 **Diagnosed** : 19 Oct 2023
Unique Number : 5659126 **Diagnostician** : Kevin Marson
Test Package : MAR 2 (Additional Tests: KV100, PQ, TAN Man, 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.

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