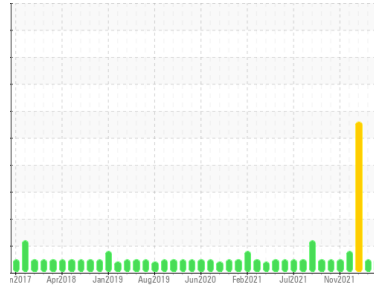


Area
Cranes [450255636]
Machine Id
Crane - Fwd Hydraulic Slewing (S/N Sample Tag MA-04003-S2)
Component
Hydraulic System
Fluid
PETRO CANADA ATF DEXRON III/MERCON (800 LTR)



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	PC0076310	PC0062104	PC
Sample Date	Client Info	24 Jan 2024	04 Oct 2023	13 Aug 2023
Machine Age	hrs	0	0	0
Oil Age	hrs	0	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		NORMAL	NORMAL	SEVERE

CONTAMINATION method limit/base current history1 history2

Water	WC Method	>0.05	NEG	NEG	NEG
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WEAR METALS method limit/base current history1 history2

PQ	ASTM D8184*		0	0	0
Iron	ppm	ASTM D5185(m) >20	1	<1	3
Chromium	ppm	ASTM D5185(m) >10	0	0	0
Nickel	ppm	ASTM D5185(m) >10	0	<1	<1
Titanium	ppm	ASTM D5185(m)	0	0	0
Silver	ppm	ASTM D5185(m)	0	<1	0
Aluminum	ppm	ASTM D5185(m) >10	<1	<1	<1
Lead	ppm	ASTM D5185(m) >20	2	1	4
Copper	ppm	ASTM D5185(m) >20	3	2	6
Tin	ppm	ASTM D5185(m) >10	0	0	<1
Antimony	ppm	ASTM D5185(m)	0	0	0
Vanadium	ppm	ASTM D5185(m)	0	0	0
Beryllium	ppm	ASTM D5185(m)	0	0	0
Cadmium	ppm	ASTM D5185(m)	0	0	0

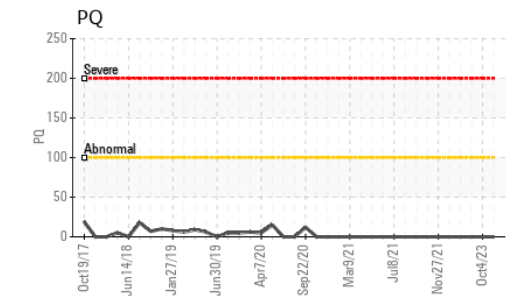
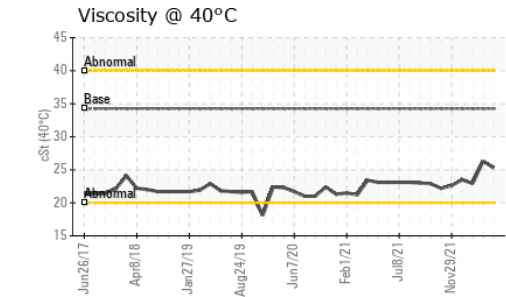
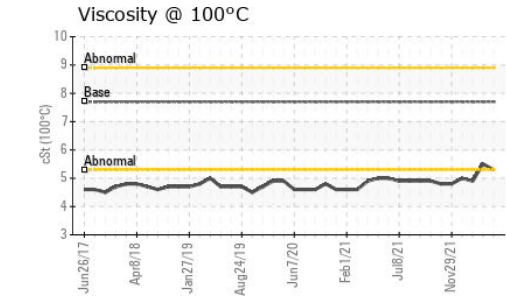
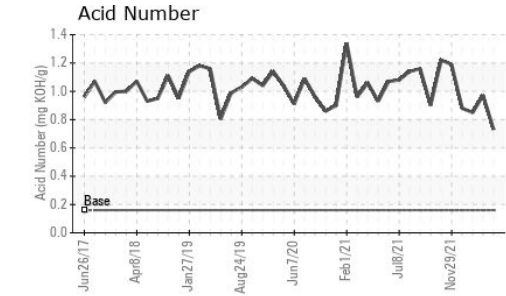
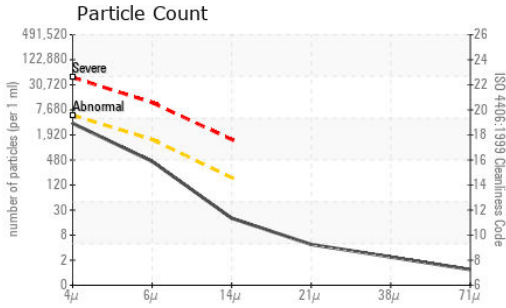
ADDITIVES method limit/base current history1 history2

Boron	ppm	ASTM D5185(m) 130	99	104	77
Barium	ppm	ASTM D5185(m) 1.0	0	<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	2	1	1
Calcium	ppm	ASTM D5185(m) 20	76	75	61
Phosphorus	ppm	ASTM D5185(m) 280	242	234	294
Zinc	ppm	ASTM D5185(m) 10	39	38	117
Sulfur	ppm	ASTM D5185(m) 440	783	754	832
Lithium	ppm	ASTM D5185(m)	<1	<1	<1

CONTAMINANTS method limit/base current history1 history2

Silicon	ppm	ASTM D5185(m) >15	2	3	4
Sodium	ppm	ASTM D5185(m)	<1	<1	3
Potassium	ppm	ASTM D5185(m) >20	<1	0	1

OIL ANALYSIS REPORT



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.

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	3175	3435	62678	
Particles >6µm	ASTM D7647	>1300	391	291	13527	
Particles >14µm	ASTM D7647	>160	17	8	490	
Particles >21µm	ASTM D7647	>40	4	3	102	
Particles >38µm	ASTM D7647	>10	2	2	3	
Particles >71µm	ASTM D7647	>3	1	1	0	
Oil Cleanliness	ISO 4406 (c)	>19/17/14	19/16/11	19/15/10	23/21/16	

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.16	0.73	0.97	0.85

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE	▲ LTMOD
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	NONE	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	25.3	26.3	22.9
Visc @ 100°C	cSt	ASTM D7279(m)	7.7	5.3	5.5	4.9
Viscosity Index (VI)	Scale	ASTM D2270*	210	148	152	142

SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						
Bottom						
PrtFilter						

