

OIL ANALYSIS REPORT

Area

Cranes

Machine Id

Crane - Fwd Hydraulic Slewing (S/N Sample Tag MA-04003-S2)

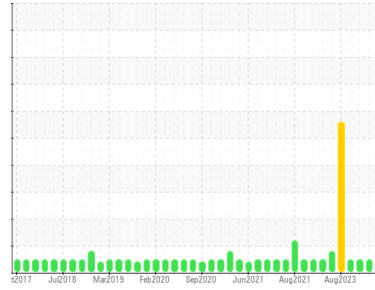
Component

Hydraulic System

Fluid

PETRO CANADA ATF DEXRON III/MERCON (800 LTR)

Sample Rating Trend



NORMAL



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	PC	PC	PC0076310
Sample Date	Client Info	16 May 2024	20 Mar 2024	24 Jan 2024
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		NORMAL	NORMAL	NORMAL

CONTAMINATION

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

WEAR METALS

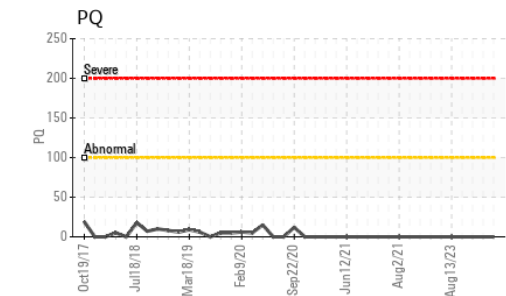
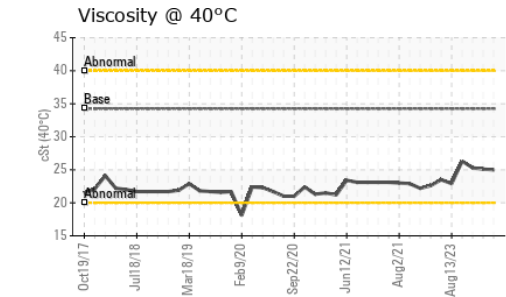
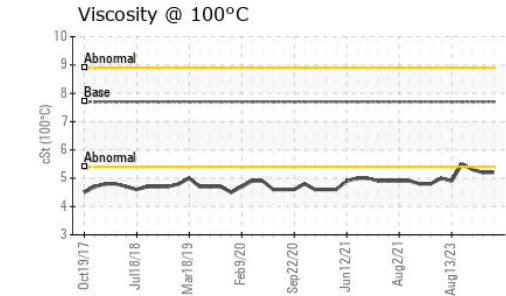
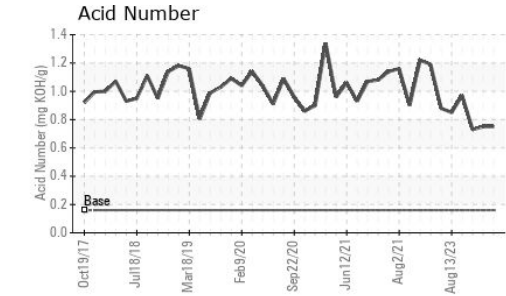
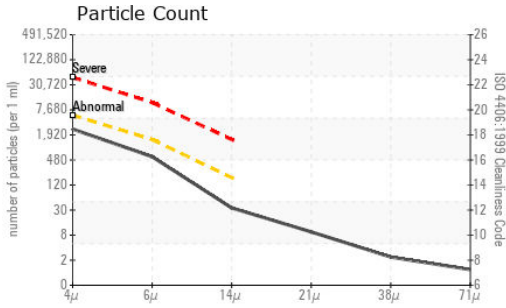
method	limit/base	current	history1	history2
PQ	ASTM D8184*	0	0	0
Iron	ppm	ASTM D5185(m) >20	1	1
Chromium	ppm	ASTM D5185(m) >10	0	0
Nickel	ppm	ASTM D5185(m) >10	0	0
Titanium	ppm	ASTM D5185(m)	0	0
Silver	ppm	ASTM D5185(m)	0	0
Aluminum	ppm	ASTM D5185(m) >10	<1	<1
Lead	ppm	ASTM D5185(m) >20	<1	<1
Copper	ppm	ASTM D5185(m) >20	4	3
Tin	ppm	ASTM D5185(m) >10	0	0
Antimony	ppm	ASTM D5185(m)	0	0
Vanadium	ppm	ASTM D5185(m)	0	0
Beryllium	ppm	ASTM D5185(m)	0	0
Cadmium	ppm	ASTM D5185(m)	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 130	97	98
Barium	ppm	ASTM D5185(m) 1.0	<1	<1
Molybdenum	ppm	ASTM D5185(m) 0.0	0	0
Manganese	ppm	ASTM D5185(m)	0	0
Magnesium	ppm	ASTM D5185(m) 1.0	2	2
Calcium	ppm	ASTM D5185(m) 20	76	76
Phosphorus	ppm	ASTM D5185(m) 280	240	237
Zinc	ppm	ASTM D5185(m) 10	43	41
Sulfur	ppm	ASTM D5185(m) 440	732	730
Lithium	ppm	ASTM D5185(m)	<1	<1

CONTAMINANTS

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



FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	2322	292	3175	
Particles >6µm	ASTM D7647	>1300	505	63	391	
Particles >14µm	ASTM D7647	>160	30	9	17	
Particles >21µm	ASTM D7647	>40	8	3	4	
Particles >38µm	ASTM D7647	>10	2	1	2	
Particles >71µm	ASTM D7647	>3	1	1	1	
Oil Cleanliness	ISO 4406 (c)	>19/17/14	18/16/12	15/13/10	19/16/11	

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.16	0.75	0.75	0.73

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE	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	VLITE	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	25.0	25.1	25.3
Visc @ 100°C	cSt	ASTM D7279(m)	7.7	5.2	5.2	5.3
Viscosity Index (VI)	Scale	ASTM D2270*	210	144	143	148

SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						
Bottom						



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC
Lab Number : 02638860
Unique Number : 5788022
Test Package : MAR 2 (Additional Tests: KV100, PQ, VI)
Received : 30 May 2024
Tested : 31 May 2024
Diagnosed : 31 May 2024 - Kevin Marson

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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.