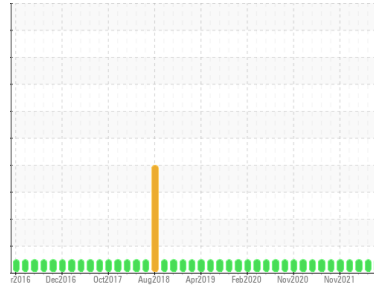


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
Cranes
Machine Id
Crane - Aft - Hydraulic System (Reservoir) (S/N Sample Tag MA-04001-S4)
Component
Hydraulic System
Fluid
PETRO CANADA ATF DEXRON III/MERCON (1050 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	PC0076376	PC	PC0039823
Sample Date	Client Info	31 Dec 2023	26 Nov 2023	12 Sep 2023
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	NEG

WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184*	0	0	0
Iron	ppm ASTM D5185(m) >20	8	8	8
Chromium	ppm ASTM D5185(m) >10	1	1	1
Nickel	ppm ASTM D5185(m) >10	0	<1	0
Titanium	ppm ASTM D5185(m)	0	0	0
Silver	ppm ASTM D5185(m)	0	<1	0
Aluminum	ppm ASTM D5185(m) >10	<1	0	<1
Lead	ppm ASTM D5185(m) >20	<1	1	1
Copper	ppm ASTM D5185(m) >20	3	3	3
Tin	ppm ASTM D5185(m) >10	0	0	0
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

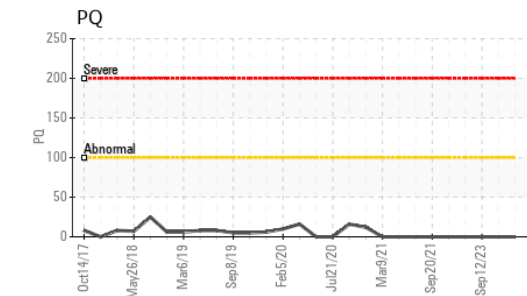
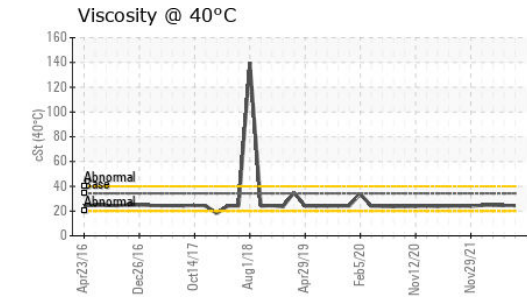
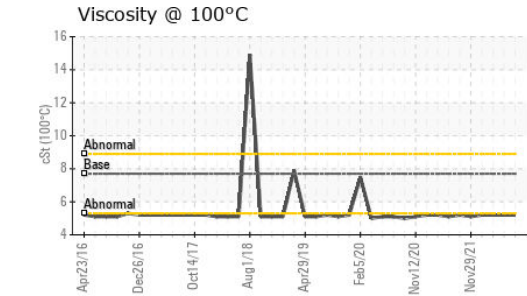
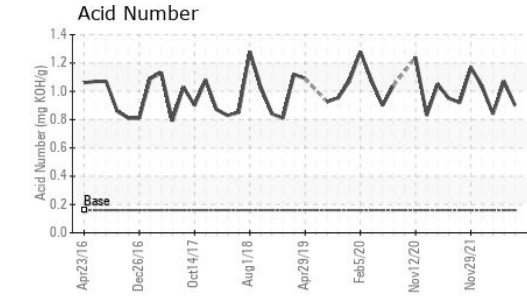
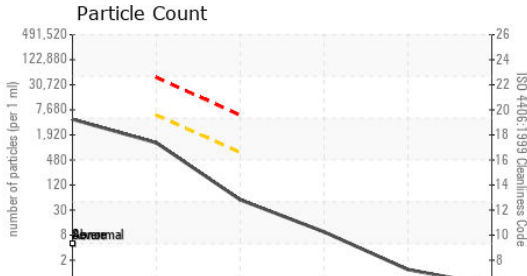
ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m) 130	100	103	107
Barium	ppm ASTM D5185(m) 1.0	19	19	20
Molybdenum	ppm ASTM D5185(m) 0.0	0	0	<1
Manganese	ppm ASTM D5185(m)	0	0	0
Magnesium	ppm ASTM D5185(m) 1.0	<1	<1	1
Calcium	ppm ASTM D5185(m) 20	45	45	51
Phosphorus	ppm ASTM D5185(m) 280	284	279	328
Zinc	ppm ASTM D5185(m) 10	62	63	69
Sulfur	ppm ASTM D5185(m) 440	818	786	823
Lithium	ppm ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >15	2	2	2
Sodium	ppm ASTM D5185(m)	5	5	6
Potassium	ppm ASTM D5185(m) >20	1	0	<1

OIL ANALYSIS REPORT



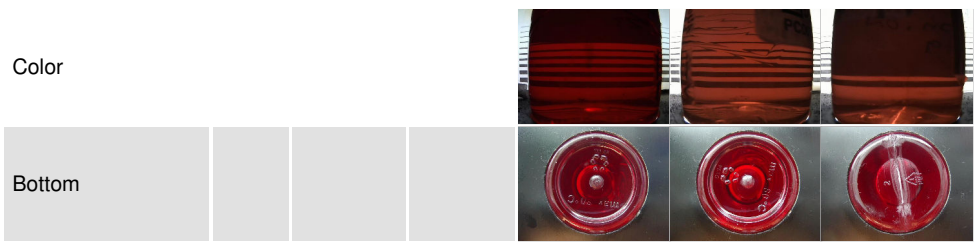
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647			3976	686	1274
Particles >6µm	ASTM D7647	>5000		1088	122	164
Particles >14µm	ASTM D7647	>640		47	15	8
Particles >21µm	ASTM D7647	>160		8	3	2
Particles >38µm	ASTM D7647	>40		1	1	1
Particles >71µm	ASTM D7647	>10		0	1	1
Oil Cleanliness	ISO 4406 (c)	>--/19/16		19/17/13	17/14/11	17/15/10

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.16	0.90	1.07	0.84

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	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	24.4	24.5	24.8
Visc @ 100°C	cSt	ASTM D7279(m)	7.7	5.2	5.2	5.2
Viscosity Index (VI)	Scale	ASTM D2270*	210	150	149	146

SAMPLE IMAGES



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0076376 **Received** : 17 Jan 2024
Lab Number : **02609357** **Diagnosed** : 18 Jan 2024
Unique Number : 5710443 **Diagnostician** : Kevin Marson
Test Package : IND 2 (Additional Tests: KV100, PQ, VI)

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 F: (709)724-2835

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.