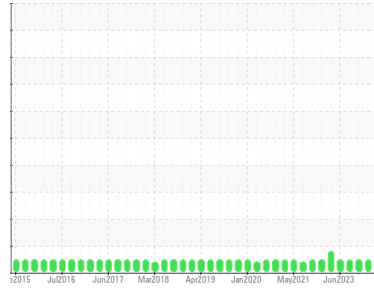


# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**Cranes**  
Machine Id  
**Crane - Mid - Hydraulic System (Luffing) (S/N Sample Tag MA-04002-S1)**  
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	<b>PC</b>	PC0078229	PC0076221
Sample Date	Client Info	<b>20 Mar 2024</b>	27 Dec 2023	04 Oct 2023
Machine Age	hrs	Client Info	<b>0</b>	0
Oil Age	hrs	Client Info	<b>0</b>	0
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

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

## WEAR METALS

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

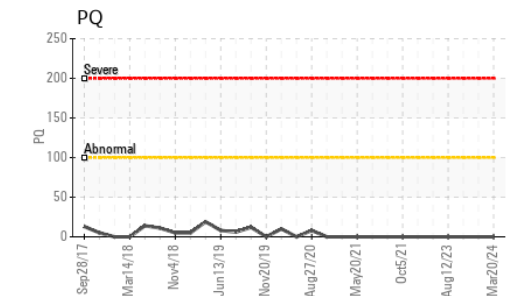
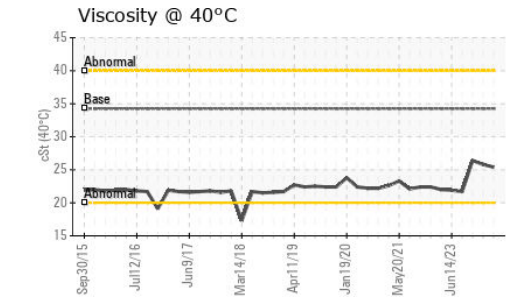
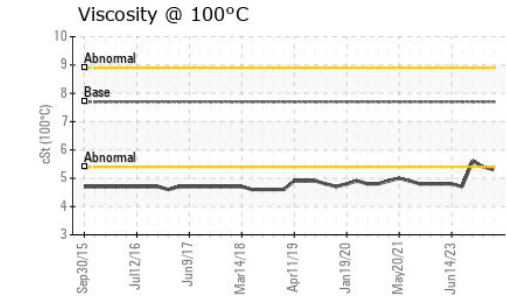
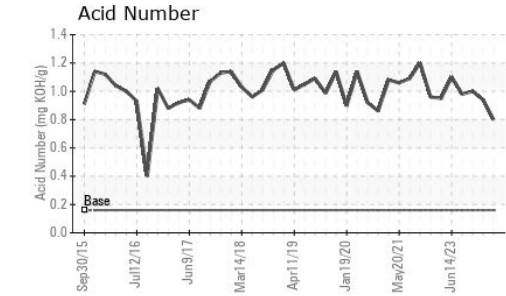
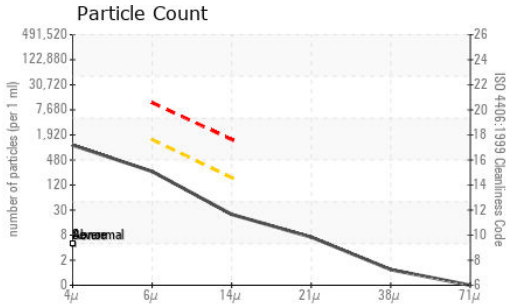
## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m) 130	<b>93</b>	92	102
Barium	ppm ASTM D5185(m) 1.0	<b>3</b>	2	2
Molybdenum	ppm ASTM D5185(m) 0.0	<b>0</b>	0	0
Manganese	ppm ASTM D5185(m)	<b>0</b>	0	0
Magnesium	ppm ASTM D5185(m) 1.0	<b>2</b>	2	2
Calcium	ppm ASTM D5185(m) 20	<b>65</b>	65	66
Phosphorus	ppm ASTM D5185(m) 280	<b>237</b>	241	238
Zinc	ppm ASTM D5185(m) 10	<b>46</b>	44	46
Sulfur	ppm ASTM D5185(m) 440	<b>700</b>	746	737
Lithium	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	<1

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >15	<b>&lt;1</b>	2	2
Sodium	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	1
Potassium	ppm ASTM D5185(m) >20	<b>&lt;1</b>	<1	0

# OIL ANALYSIS REPORT



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC  
**Lab Number** : 02626061  
**Unique Number** : 5759193  
**Test Package** : MAR 2 ( Additional Tests: KV100, PQ, VI )  
**Received** : 02 Apr 2024  
**Tested** : 03 Apr 2024  
**Diagnosed** : 03 Apr 2024 - Kevin Marson

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			<b>957</b>	1489	5409
Particles >6µm	ASTM D7647	>1300		<b>224</b>	478	485
Particles >14µm	ASTM D7647	>160		<b>21</b>	47	9
Particles >21µm	ASTM D7647	>40		<b>6</b>	9	2
Particles >38µm	ASTM D7647	>10		<b>1</b>	1	1
Particles >71µm	ASTM D7647	>3		<b>0</b>	0	1
Oil Cleanliness	ISO 4406 (c)	>--/17/14		<b>17/15/12</b>	18/16/13	20/16/10

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.16	<b>0.80</b>	0.94	1.00

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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	34.26	<b>25.4</b>	25.8	26.4
Visc @ 100°C	cSt	ASTM D7279(m)	7.7	<b>5.3</b>	5.4	5.6
Viscosity Index (VI)	Scale	ASTM D2270*	210	<b>147</b>	150	158

SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						
Bottom						