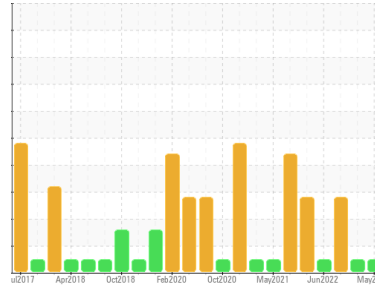




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**Materials Handling/SW Pedestal Crane**  
 Machine Id  
**WPD471201 CRANE PEDESTAL SOUTH WEST**

Component  
**Main Brake**  
 Fluid  
**MOBIL MOBILUBE HD 80W90 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.  
 NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the component make and model with your next sample.

### Wear

All component wear rates are normal.

### Contamination

The water content is negligible. There is no indication of any contamination in the fluid.

### Fluid Condition

The AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>PP</b>	PP13786970	PP13755937
Sample Date	Client Info	<b>25 May 2023</b>	24 Dec 2022	07 Jul 2022
Machine Age	hrs	<b>0</b>	0	0
Oil Age	hrs	<b>0</b>	0	0
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>NORMAL</b>	NORMAL	ABNORMAL

## WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184*	<b>16</b>	14	32
Iron	ppm ASTM D5185(m) >350	<b>24</b>	33	36
Chromium	ppm ASTM D5185(m) >5	<b>0</b>	0	0
Nickel	ppm ASTM D5185(m) >5	<b>0</b>	<1	<1
Titanium	ppm ASTM D5185(m)	<b>0</b>	<1	<1
Silver	ppm ASTM D5185(m)	<b>0</b>	0	0
Aluminum	ppm ASTM D5185(m) >8	<b>&lt;1</b>	<1	<1
Lead	ppm ASTM D5185(m) >10	<b>1</b>	3	4
Copper	ppm ASTM D5185(m) >150	<b>25</b>	51	56
Tin	ppm ASTM D5185(m) >5	<b>&lt;1</b>	2	3
Antimony	ppm ASTM D5185(m) >5	<b>0</b>	<1	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)	<b>160</b>	137	129
Barium	ppm ASTM D5185(m)	<b>0</b>	0	<1
Molybdenum	ppm ASTM D5185(m)	<b>0</b>	0	0
Manganese	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	<1
Magnesium	ppm ASTM D5185(m)	<b>1</b>	6	4
Calcium	ppm ASTM D5185(m)	<b>9</b>	28	32
Phosphorus	ppm ASTM D5185(m)	<b>1101</b>	979	930
Zinc	ppm ASTM D5185(m)	<b>11</b>	20	25
Sulfur	ppm ASTM D5185(m)	<b>24158</b>	23636	23711
Lithium	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	1

## CONTAMINANTS

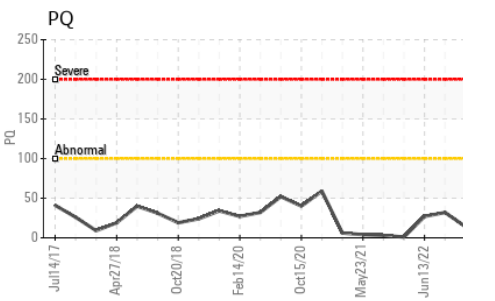
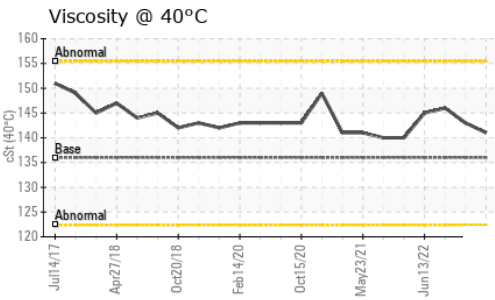
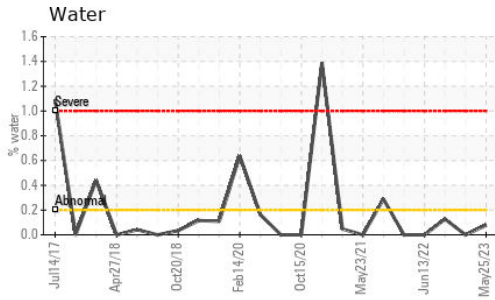
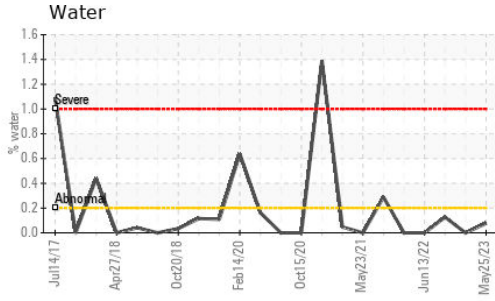
method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >400	<b>2</b>	4	5
Sodium	ppm ASTM D5185(m)	<b>1</b>	4	4
Potassium	ppm ASTM D5185(m) >20	<b>2</b>	9	6
Water	% ASTM D6304* >0.2	<b>0.077</b>	---	0.126
ppm Water	ppm ASTM D6304* >2000	<b>772.1</b>	---	1264.5

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D974*	<b>1.47</b>	1.50	1.36



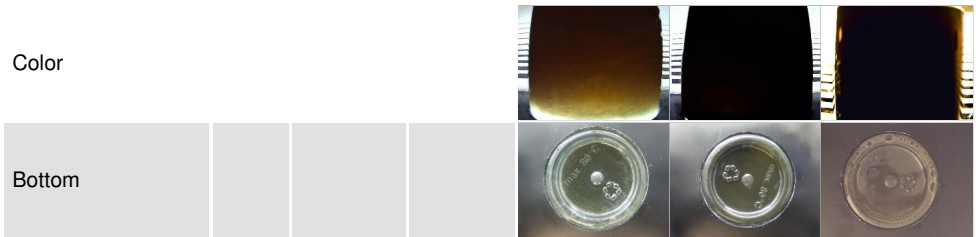
# OIL ANALYSIS REPORT



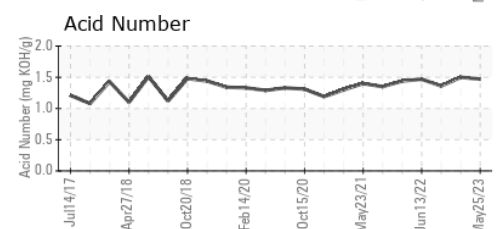
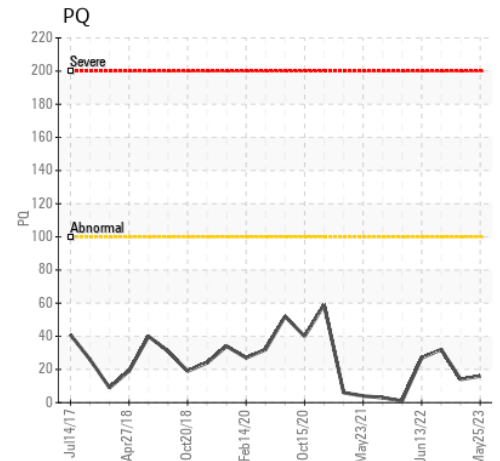
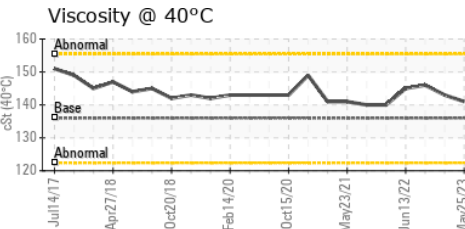
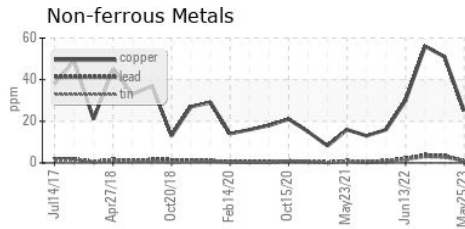
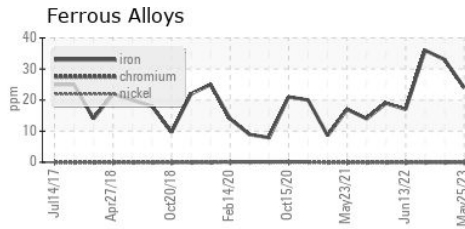
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	VLITE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	▲ LIGHT
Silt	scalar	Visual*	NONE	NONE	VLITE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	.5%	NEG
Free Water	scalar	Visual*		NEG	▲ 5%

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	136	141	143

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
 Sample No. : PP  
 Lab Number : 02559918  
 Unique Number : 5580958  
 Test Package : MAR 2 ( Additional Tests: KF, TAN Man )

**ExxonMobil Canada East Ltd.**  
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 St. John's, NL  
 CA A1C 6K3  
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 T: (709)273-3729  
 F:

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.