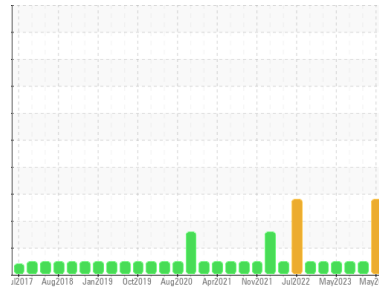




# OIL ANALYSIS REPORT

Sample Rating Trend



**WATER**



Area

**Materials Handling/SE Pedestal Crane**  
**WPD471261 CRANE PEDESTAL SOUTH EAST**

Machine Id

Component  
**Auxiliary Drive**

Fluid

**MOBIL MOBILUBE HD 80W90 (--- GAL)**

## DIAGNOSIS

### Recommendation

We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We advise that you use off-line filtration with water adsorbent filters to attempt to remove the water from this oil. We recommend that you change the oil. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

### Wear

All component wear rates are normal.

### Contamination

There is a moderate concentration of water present in the oil.

### Fluid Condition

The white residue present in the sample is oil additive precipitate. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>PP13994631</b>	PP	PP13897520
Sample Date	Client Info	<b>26 May 2024</b>	16 Feb 2024	01 Jul 2023
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>ABNORMAL</b>	NORMAL	NORMAL

## WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184*	<b>0</b>	0	13
Iron	ppm	ASTM D5185(m) >200	<b>3</b>	3
Chromium	ppm	ASTM D5185(m) >10	<b>0</b>	0
Nickel	ppm	ASTM D5185(m) >10	<b>0</b>	0
Titanium	ppm	ASTM D5185(m)	<b>0</b>	0
Silver	ppm	ASTM D5185(m)	<b>0</b>	0
Aluminum	ppm	ASTM D5185(m)	<b>0</b>	0
Lead	ppm	ASTM D5185(m)	<b>0</b>	<1
Copper	ppm	ASTM D5185(m)	<b>&lt;1</b>	0
Tin	ppm	ASTM D5185(m)	<b>0</b>	2
Antimony	ppm	ASTM D5185(m) >5	<b>0</b>	0
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	0
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	0
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	0

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	<b>172</b>	180
Barium	ppm	ASTM D5185(m)	<b>0</b>	0
Molybdenum	ppm	ASTM D5185(m)	<b>0</b>	0
Manganese	ppm	ASTM D5185(m)	<b>0</b>	<1
Magnesium	ppm	ASTM D5185(m)	<b>1</b>	<1
Calcium	ppm	ASTM D5185(m)	<b>4</b>	4
Phosphorus	ppm	ASTM D5185(m)	<b>996</b>	1001
Zinc	ppm	ASTM D5185(m)	<b>9</b>	4
Sulfur	ppm	ASTM D5185(m)	<b>24513</b>	24438
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1

## CONTAMINANTS

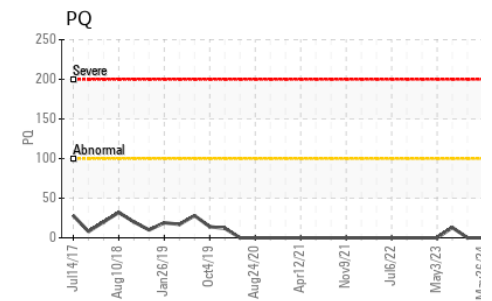
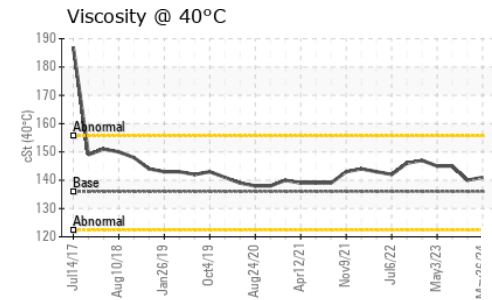
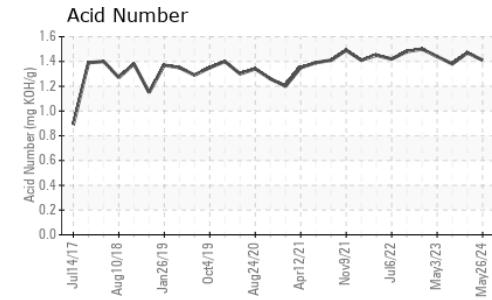
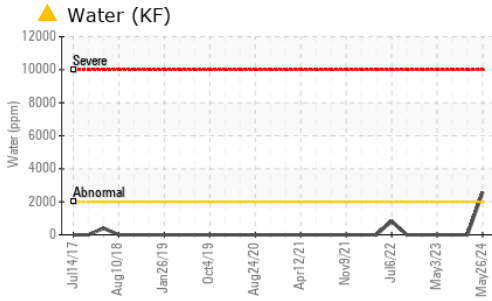
method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	<b>0</b>	0
Sodium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1
Potassium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	<1
Water	%	ASTM D6304* >0.2	<b>▲ 0.256</b>	---
ppm Water	ppm	ASTM D6304* >2000	<b>▲ 2569</b>	---

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	<b>1.41</b>	1.47



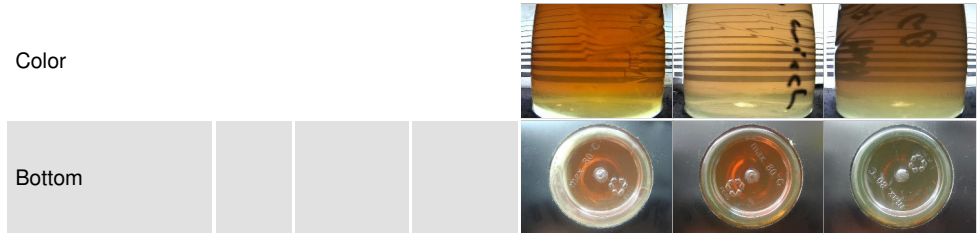
# OIL ANALYSIS REPORT



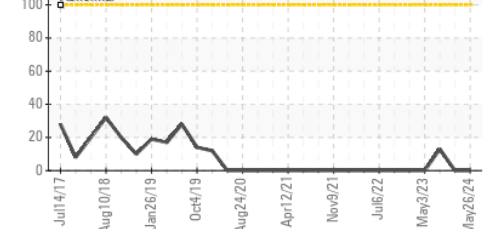
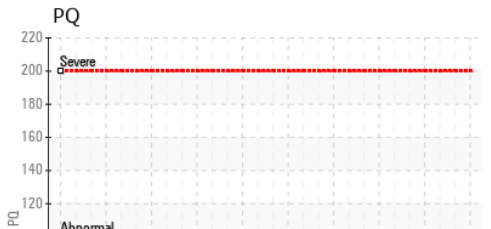
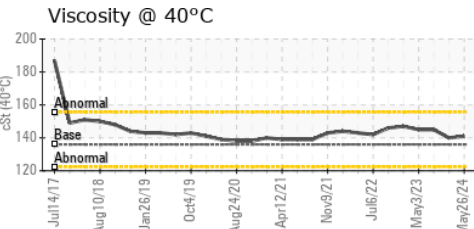
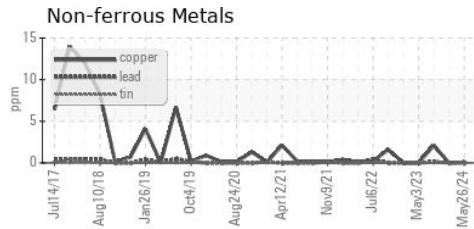
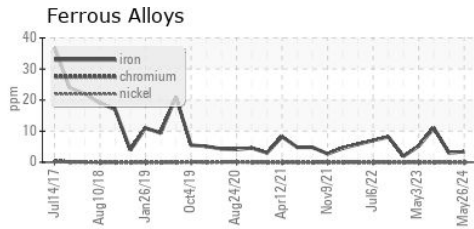
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	VLITE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	▲ LIGHT	NONE
Silt	scalar	Visual*	NONE	VLITE	NONE
Debris	scalar	Visual*	NONE	NONE	VLITE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	▲ 1%	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	136	141	140

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.** : PP13994631 **Received** : 13 Jun 2024  
**Lab Number** : 02641841 **Tested** : 14 Jun 2024  
**Unique Number** : 5799380 **Diagnosed** : 14 Jun 2024 - Kevin Marson  
**Test Package** : MAR 2 ( Additional Tests: KF, TAN Man )

**ExxonMobil Canada East Ltd.**  
 Hebron-Materials and Repair Coordin, Suite 1000, 100 New Gow  
 St. John's, NL  
 CA A1C 6K3  
 Contact: Liam Maher  
 liam.m.maher@exxonmobil.com  
 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.