

# **PROBLEM SUMMARY**

Sample Rating Trend

ISO

Machine Id

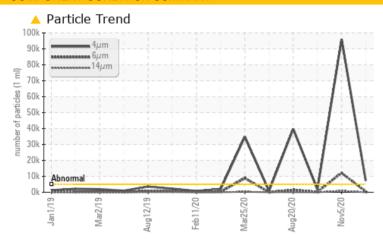
# Water Injection Pool 1 Train 2 (S/N CAHE-V684225)

Component

**Hydraulic System** 

**MOBIL DTE OIL LIGHT (--- LTR)** 

## **COMPONENT CONDITION SUMMARY**



### RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

PROBLEMATIC TO	EST RESULTS				
Sample Status			ATTENTION	NORMAL	SEVERE
Particles >4µm	ASTM D7647	>5000	<b>7319</b>	1781	96070
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>20/16/11</b>	18/14/10	24/21/17

Customer Id: EXXSTJ Sample No.: PP13899819 Lab Number: 02577464 Test Package: MAR 2

To manage this report scan the QR code

To discuss the diagnosis or test data: Wes Davis +1 905-569-8600 x223 wesd@wearcheck.ca

To change component or sample information: Gloria Gonzalez +1 (289)291-4643 x4643 gloria.gonzalez@wearcheck.com

#### **RECOMMENDED ACTIONS**

Action	Status	Date	Done By	Description
Change Filter			?	We recommend you service the filters on this component.
Information Required			?	NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

#### HISTORICAL DIAGNOSIS

#### 05 Nov 2020 Diag: Wes Davis

#### NORMAL



Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



#### ISO



#### 05 Nov 2020 Diag: Wes Davis

We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. 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. Resample in 30-45 days to monitor this situation. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. All component wear rates are normal. Particles >6µm are severely high. Particles >4µm are severely high. Particles >14µm are abnormally high. Particles >38µm are notably high. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



#### 20 Aug 2020 Diag: Wes Davis

#### ISO



We recommend you service the filters on this component. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. All component wear rates are normal. Particles  $>4\mu m$  are abnormally high. Particles  $>6\mu m$  are notably high. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

# Water Injection Pool 1 Train 2 (S/N CAHE-V684225)

Component

**Hydraulic System** 

MOBIL DTE OIL LIGHT (--- LTR)

## DIAGNOSIS

#### Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor. 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 light amount of silt (particulates < 14 microns in size) present in the oil.

### **Fluid Condition**

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

		122019 M	~2019 Aug 2019 Esh	2020 Mw2020 Aug2020	No.2020	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PP13899819	PP13554651	PP13505973
Sample Date		Client Info		07 Aug 2023	05 Nov 2020	05 Nov 2020
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed	1110	Client Info		N/A	N/A	N/A
Sample Status				ATTENTION	NORMAL	SEVERE
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	<1	<1	<1
Chromium	ppm	ASTM D5185(m)	>10	0	0	0
Nickel	ppm	ASTM D5185(m)	>10	<1	<1	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>10	<1	<1	<1
Lead	ppm	ASTM D5185(m)	>20	0	<1	<1
Copper	ppm	ASTM D5185(m)	>20	2	4	4
Tin	ppm	ASTM D5185(m)	>10	0	0	0
Antimony		ASTM D5185(m)	>10	0	0	0
•	ppm			0	0	
Vanadium	ppm	ASTM D5185(m)		-		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)		0	<1	<1
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		0	0	0
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)		4	11	10
Calcium	ppm	ASTM D5185(m)		<1	<1	1
Phosphorus	ppm	ASTM D5185(m)		108	102	102
Zinc	ppm	ASTM D5185(m)		25	55	59
Sulfur	ppm	ASTM D5185(m)		598	791	794
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	0	<1	<1
Sodium	ppm	ASTM D5185(m)		<1	<1	13
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	2
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<b>7319</b>	1781	96070
Particles >6µm		ASTM D7647	>1300	543	157	12049
Particles >14µm		ASTM D7647	>160	11	7	<b>△</b> 904
Particles >21µm		ASTM D7647		3	2	<u>^</u> 280
Particles >38µm		ASTM D7647	>10	0	0	<u>▲</u> 16
Particles >71µm		ASTM D7647		0	0	1
Oil Cleanliness		ISO 4406 (c)	>19/17/14	△ 20/16/11	18/14/10	24/21/17
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

Acid Number (AN)

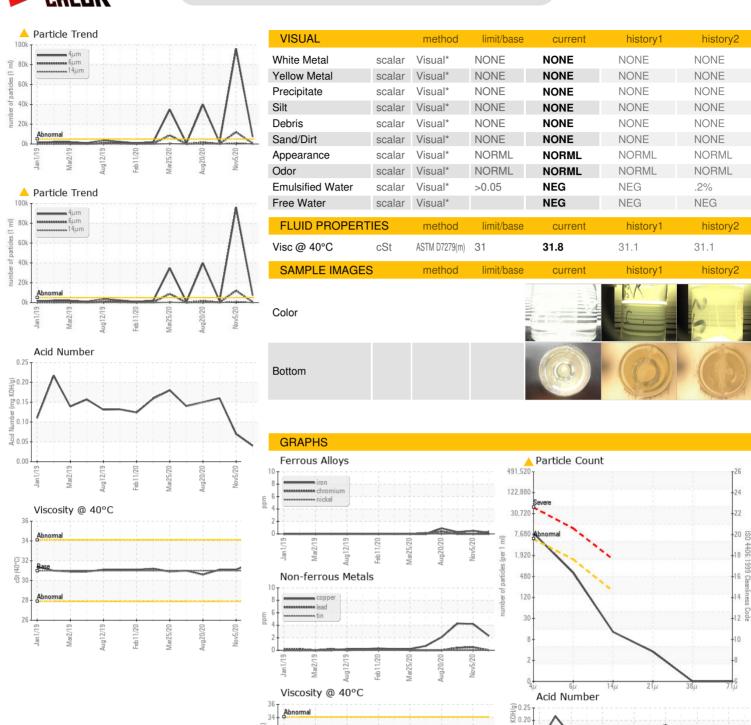
mg KOH/g ASTM D974\*

0.07

0.16



## OIL ANALYSIS REPORT







Laboratory

Laboratory Sample No. Lab Number **Unique Number** 

Test Package

: PP13899819

26

02577464 : 5630524

: MAR 2

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received : 22 Aug 2023 Diagnosed : 23 Aug 2023

Diagnostician

Nov5/20

: Wes Davis

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> ExxonMobil Canada East Ltd. Hebron-Materials and Repair Coordin, Suite 1000, 100 New Gow

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T: (709)273-3729

Contact: Liam Maher liam.m.maher@exxonmobil.com

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.