

Machine Id  
**CAHE-KBC503150 KBC HPU #1**  
 Component  
**Hydraulic System**  
 Fluid  
**MOBIL DTE EXCEL ISO 32 (--- 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.

**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 condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>PC12340330</b>	PC13865375	PP
Sample Date	Client Info			<b>04 Jul 2023</b>	17 May 2023	28 Nov 2019
Machine Age	hrs	Client Info		<b>0</b>	0	0
Oil Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	ABNORMAL	NORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	<b>6</b>	6	<1
Chromium	ppm	ASTM D5185(m)	>10	<b>2</b>	1	<1
Nickel	ppm	ASTM D5185(m)	>10	<b>0</b>	0	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	<1	0
Lead	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	0
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>	<1	<1
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

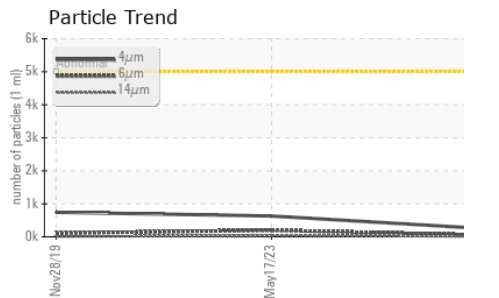
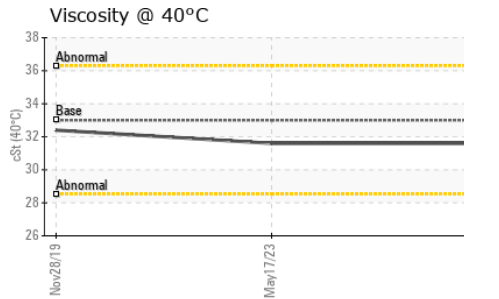
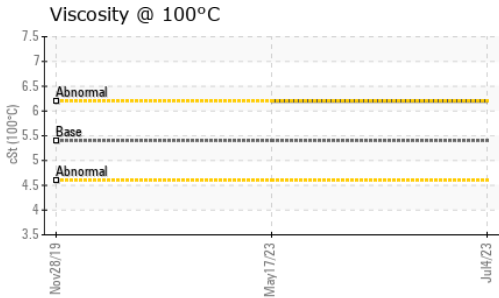
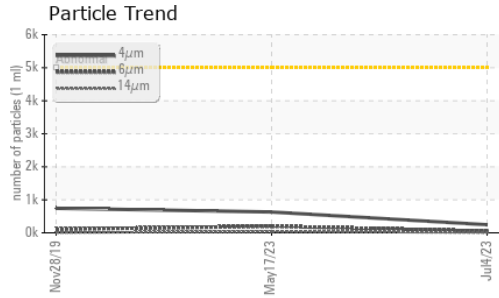
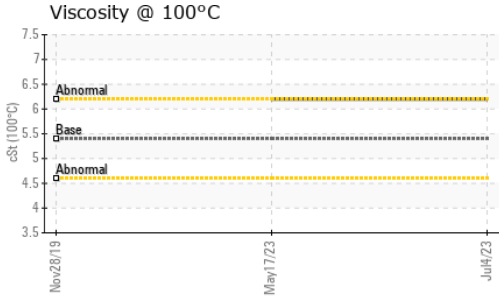
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)		<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)		<b>2</b>	2	<1
Calcium	ppm	ASTM D5185(m)		<b>107</b>	107	112
Phosphorus	ppm	ASTM D5185(m)		<b>482</b>	486	451
Zinc	ppm	ASTM D5185(m)		<b>12</b>	12	6
Sulfur	ppm	ASTM D5185(m)		<b>1363</b>	1366	1359
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>	<1	0
Sodium	ppm	ASTM D5185(m)		<b>6</b>	5	<1
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<b>244</b>	631	743
Particles >6µm		ASTM D7647	>1300	<b>50</b>	199	107
Particles >14µm		ASTM D7647	>160	<b>6</b>	35	8
Particles >21µm		ASTM D7647	>40	<b>2</b>	12	3
Particles >38µm		ASTM D7647	>10	<b>0</b>	1	0
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>15/13/10</b>	16/15/12	17/14/10

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	.2	<b>0.06</b>	0.06	0.136

# 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	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
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*	>0.05	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	33.0	31.6	32.4
Visc @ 100°C	cSt	ASTM D7279(m)	5.4	6.2	---
Viscosity Index (VI)	Scale	ASTM D2270*	97	149	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					
PrtFilter					

GRAPHS	
<p><b>Ferrous Alloys</b></p>	<p><b>Particle Count</b></p>
<p><b>Non-ferrous Metals</b></p>	<p><b>Acid Number</b></p>
<p><b>Viscosity @ 40°C</b></p>	



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC12340330  
**Lab Number** : 02573735  
**Unique Number** : 5618786  
**Test Package** : MAR 2 ( Additional Tests: KV100, VI )

**ExxonMobil Canada East Ltd.**  
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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.