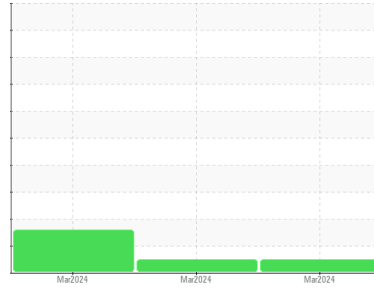


# OIL ANALYSIS REPORT



Area  
**[2IEME FLUSH]**  
 Machine Id  
**CATERPILLAR M315D M315D (S/N W5M05600)**  
 Component  
**Hydraulic System**  
 Fluid  
**PETRO CANADA ENVIRON MV R 46 (215 LTR)**

Sample Rating Trend



**NORMAL**



**DIAGNOSIS**

**Recommendation**

Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition.

**Wear**

Les taux d'usure de tous les composants sont normaux.

**Contamination**

La propreté du système est acceptable pour votre objectif de propreté ISO 4406. La propreté du système et du fluide est acceptable.

**Fluid Condition**

Le AN est acceptable pour ce fluide. L'état de l'huile permet d'en prolonger l'utilisation.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>PC0087961</b>	PC0070367	PC0087957
Sample Date	Client Info			<b>30 Mar 2024</b>	29 Mar 2024	28 Mar 2024
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>	NORMAL	ATTENTION

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>0.1	<b>NEG</b>	NEG	NEG

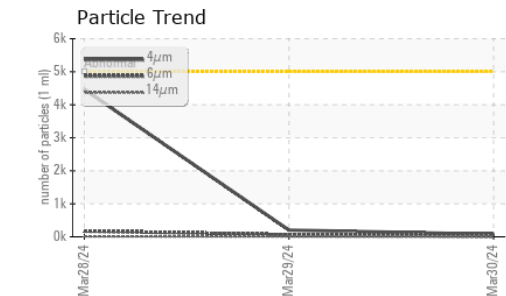
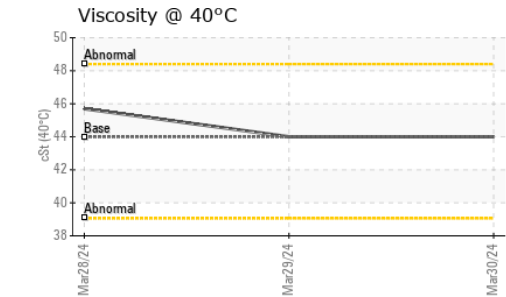
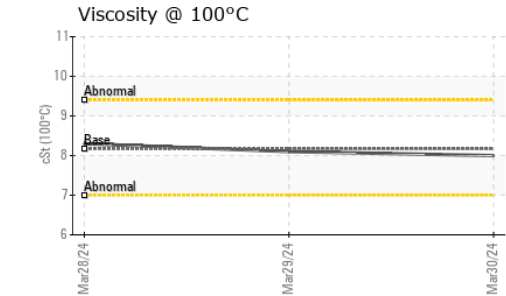
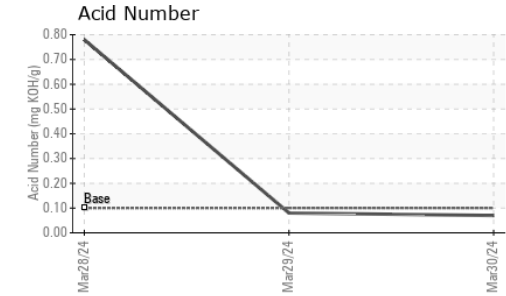
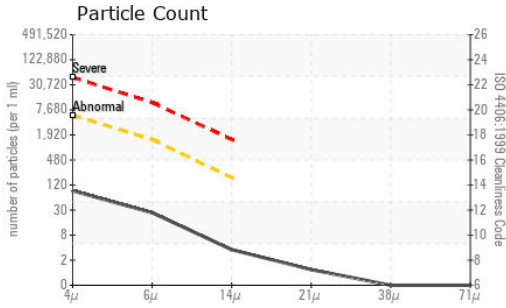
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	<b>0</b>	0	29
Chromium	ppm	ASTM D5185(m)	>10	<b>0</b>	0	2
Nickel	ppm	ASTM D5185(m)	>10	<b>0</b>	0	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>10	<b>0</b>	0	<1
Lead	ppm	ASTM D5185(m)	>10	<b>0</b>	0	4
Copper	ppm	ASTM D5185(m)	>75	<b>0</b>	0	1
Tin	ppm	ASTM D5185(m)	>10	<b>0</b>	0	3
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)	<1	<b>0</b>	0	● 17
Barium	ppm	ASTM D5185(m)	<1	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)	<1	<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)	<1	<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	<1	<b>&lt;1</b>	0	4
Calcium	ppm	ASTM D5185(m)		<b>0</b>	0	● 128
Phosphorus	ppm	ASTM D5185(m)	626	<b>514</b>	506	547
Zinc	ppm	ASTM D5185(m)		<b>&lt;1</b>	1	● 97
Sulfur	ppm	ASTM D5185(m)	1236	<b>1163</b>	1144	● 596
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	<b>0</b>	0	<1
Sodium	ppm	ASTM D5185(m)		<b>0</b>	<1	3
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	25

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<b>77</b>	205	4467
Particles >6µm		ASTM D7647	>1300	<b>23</b>	60	174
Particles >14µm		ASTM D7647	>160	<b>3</b>	9	11
Particles >21µm		ASTM D7647	>40	<b>1</b>	5	6
Particles >38µm		ASTM D7647	>10	<b>0</b>	3	4
Particles >71µm		ASTM D7647	>3	<b>0</b>	2	4
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>13/12/9</b>	15/13/10	19/15/11

# OIL ANALYSIS REPORT

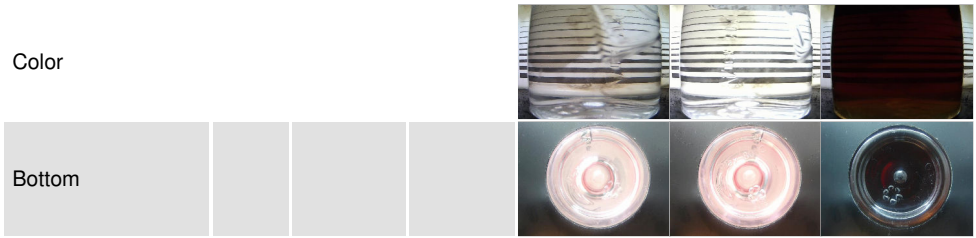


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.1	<b>0.07</b>	0.08	0.78

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>	NONE	NONE
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	<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)	43.99	<b>44.0</b>	44.0	45.7
Visc @ 100°C	cSt	ASTM D7279(m)	8.17	<b>8.0</b>	8.1	8.3
Viscosity Index (VI)	Scale	ASTM D2270*	162	<b>155</b>	159	158

## SAMPLE IMAGES



Color

Bottom



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0087961  
**Lab Number** : **02637138**  
**Unique Number** : 5786300  
**Test Package** : IND 2 ( Additional Tests: KV100, VI )

**HUILES DESROCHES INC.**  
 915 RUE PHILIPPE-PARADIS, LOCAL 115  
 QUEBEC, QC  
 CA G1N 4E3  
 Contact: David Labrecque  
 david.labrecque@groupe-desroches.ca  
 T: (418)621-5150  
 F: (418)621-0822

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.