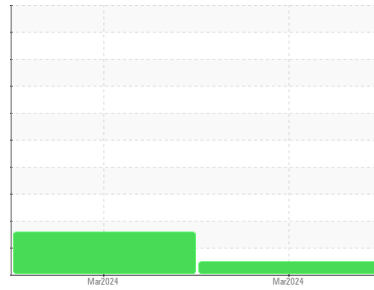


OIL ANALYSIS REPORT



Area
[236014]
 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	PC0070367	PC0087957	---
Sample Date	Client Info	29 Mar 2024	28 Mar 2024	---
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	N/A	N/A	---
Sample Status		NORMAL	ATTENTION	---

CONTAMINATION method limit/base current history1 history2

Water	WC Method	>0.1	NEG	NEG	---
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WEAR METALS method limit/base current history1 history2

Iron	ppm	ASTM D5185(m)	>20	0	29	---
Chromium	ppm	ASTM D5185(m)	>10	0	2	---
Nickel	ppm	ASTM D5185(m)	>10	0	0	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)		0	0	---
Aluminum	ppm	ASTM D5185(m)	>10	0	<1	---
Lead	ppm	ASTM D5185(m)	>10	0	4	---
Copper	ppm	ASTM D5185(m)	>75	0	1	---
Tin	ppm	ASTM D5185(m)	>10	0	3	---
Antimony	ppm	ASTM D5185(m)		0	0	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
Beryllium	ppm	ASTM D5185(m)		0	0	---
Cadmium	ppm	ASTM D5185(m)		0	0	---

ADDITIVES method limit/base current history1 history2

Boron	ppm	ASTM D5185(m)	<1	0	17	---
Barium	ppm	ASTM D5185(m)	<1	0	<1	---
Molybdenum	ppm	ASTM D5185(m)	<1	0	0	---
Manganese	ppm	ASTM D5185(m)	<1	0	<1	---
Magnesium	ppm	ASTM D5185(m)	<1	0	4	---
Calcium	ppm	ASTM D5185(m)		0	128	---
Phosphorus	ppm	ASTM D5185(m)	626	506	547	---
Zinc	ppm	ASTM D5185(m)		1	97	---
Sulfur	ppm	ASTM D5185(m)	1236	1144	596	---
Lithium	ppm	ASTM D5185(m)		<1	<1	---

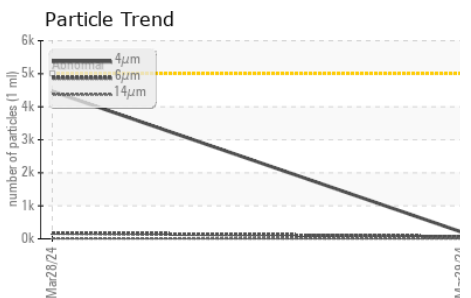
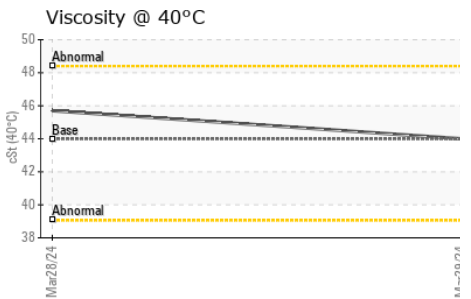
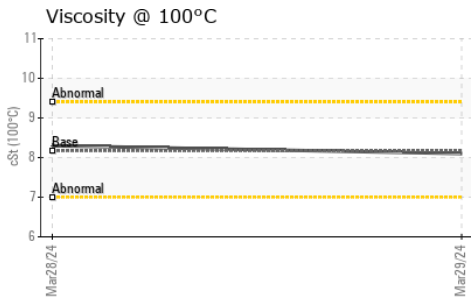
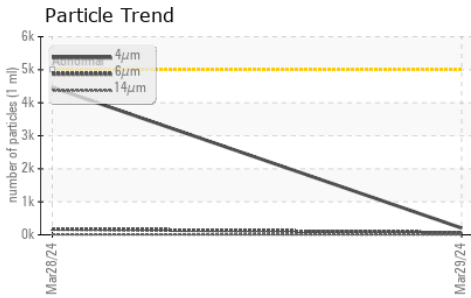
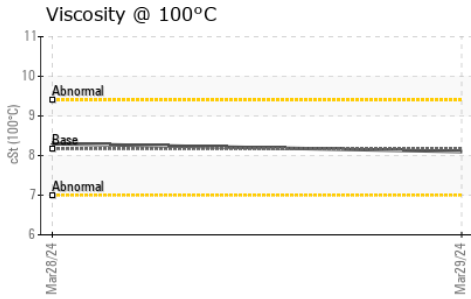
CONTAMINANTS method limit/base current history1 history2

Silicon	ppm	ASTM D5185(m)	>20	0	<1	---
Sodium	ppm	ASTM D5185(m)		<1	3	---
Potassium	ppm	ASTM D5185(m)	>20	0	25	---

FLUID CLEANLINESS method limit/base current history1 history2

Particles >4µm	ASTM D7647	>5000	205	4467	---
Particles >6µm	ASTM D7647	>1300	60	174	---
Particles >14µm	ASTM D7647	>160	9	11	---
Particles >21µm	ASTM D7647	>40	5	6	---
Particles >38µm	ASTM D7647	>10	3	4	---
Particles >71µm	ASTM D7647	>3	2	4	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	15/13/10	19/15/11	---

OIL ANALYSIS REPORT

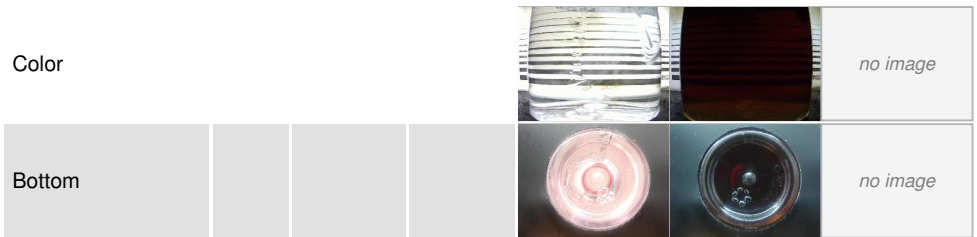


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.1	0.08	0.78	---

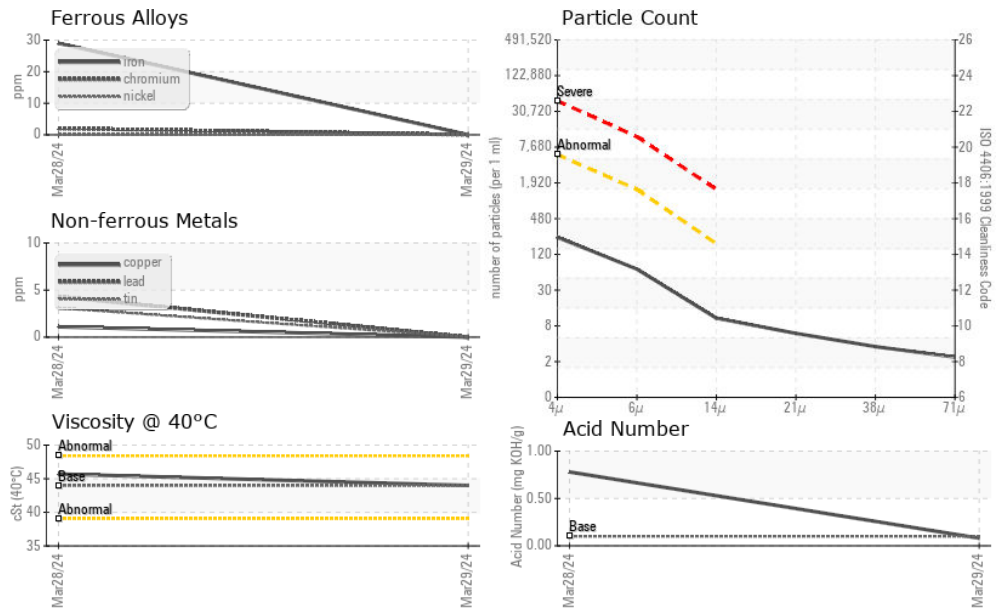
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	---
Free Water	scalar	Visual*		NEG	NEG	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	43.99	44.0	45.7	---
Visc @ 100°C	cSt	ASTM D7279(m)	8.17	8.1	8.3	---
Viscosity Index (VI)	Scale	ASTM D2270*	162	159	158	---

SAMPLE IMAGES



GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0070367
Lab Number : **02637137**
Unique Number : 5786299
Test Package : IND 2 (Additional Tests: KV100, VI)
Received : 23 May 2024
Tested : 24 May 2024
Diagnosed : 24 May 2024 - Wes Davis

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.