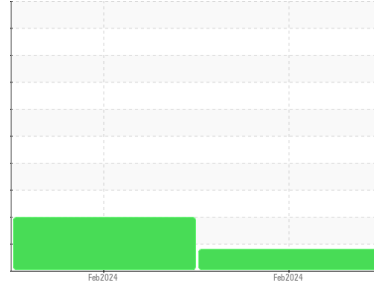




Area
(L566056-6)
Machine Id
STERLING 03-01 (S/N 2FZHAZAS93AL64305)
Component
Hydraulic System
Fluid
PETRO CANADA ENVIRON MV 46 (195 GAL)



DIAGNOSIS

Recommendation

Nous avons pris note que le filtre a été remplacé au moment de l'échantillonnage. Confirmez la source du lubrifiant utilisé pour l'appoint/remplissage. 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

Il y a une légère quantité de limon (particules de 4 à 14 microns) dans l'huile.

Fluid Condition

Les niveaux d'additifs indiquent l'ajout d'une autre marque ou d'un autre type d'huile. 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		PC0070370	PC0057460	---
Sample Date	Client Info		26 Feb 2024	25 Feb 2024	---
Machine Age	hrs	Client Info	0	0	---
Oil Age	hrs	Client Info	0	0	---
Oil Changed	Client Info		Changed	N/A	---
Sample Status			ATTENTION	SEVERE	---

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.05	NEG	NEG	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >20	<1	11	---
Chromium	ppm	ASTM D5185(m) >20	0	<1	---
Nickel	ppm	ASTM D5185(m) >20	<1	<1	---
Titanium	ppm	ASTM D5185(m)	0	0	---
Silver	ppm	ASTM D5185(m)	0	0	---
Aluminum	ppm	ASTM D5185(m) >20	<1	2	---
Lead	ppm	ASTM D5185(m) >20	0	<1	---
Copper	ppm	ASTM D5185(m) >20	<1	8	---
Tin	ppm	ASTM D5185(m) >20	0	<1	---
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) 0	<1	4	---
Barium	ppm	ASTM D5185(m) 0	<1	4	---
Molybdenum	ppm	ASTM D5185(m) 0	0	1	---
Manganese	ppm	ASTM D5185(m) 0	0	0	---
Magnesium	ppm	ASTM D5185(m) 0	1	15	---
Calcium	ppm	ASTM D5185(m) 0	21	278	---
Phosphorus	ppm	ASTM D5185(m) 650	607	402	---
Zinc	ppm	ASTM D5185(m) 0	30	399	---
Sulfur	ppm	ASTM D5185(m) 1420	1421	1887	---
Lithium	ppm	ASTM D5185(m)	<1	<1	---

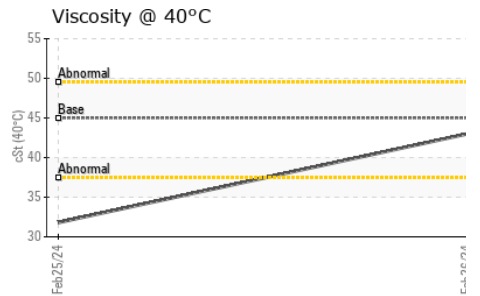
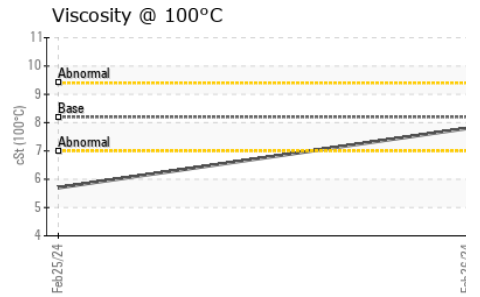
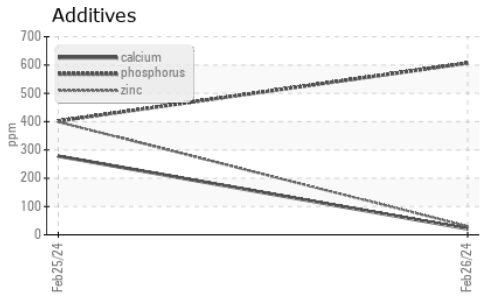
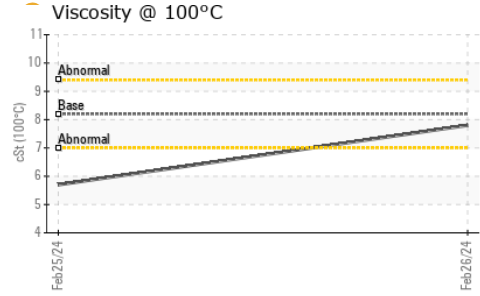
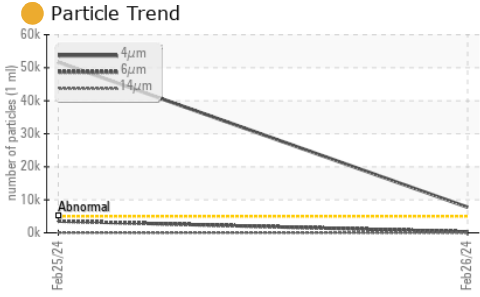
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >15	0	2	---
Sodium	ppm	ASTM D5185(m)	0	2	---
Potassium	ppm	ASTM D5185(m) >20	<1	<1	---

FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	7752	51693	---
Particles >6µm	ASTM D7647	>1300	285	3545	---
Particles >14µm	ASTM D7647	>160	15	20	---
Particles >21µm	ASTM D7647	>40	4	6	---
Particles >38µm	ASTM D7647	>10	1	2	---
Particles >71µm	ASTM D7647	>3	1	2	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	20/15/11	23/19/11	---

OIL ANALYSIS REPORT



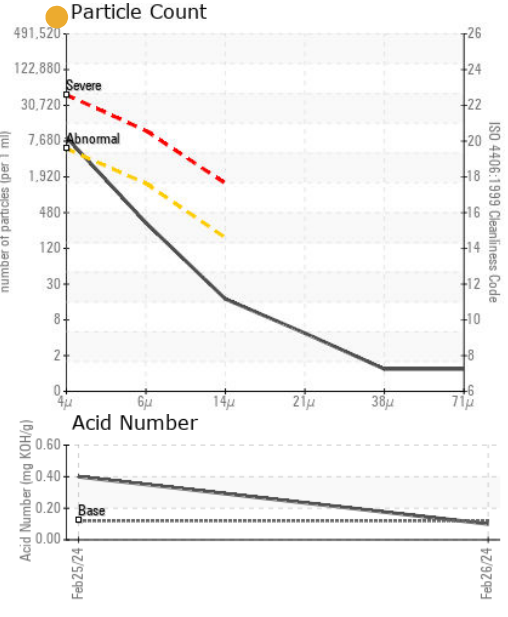
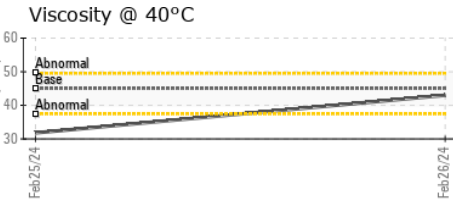
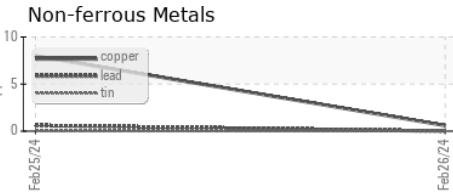
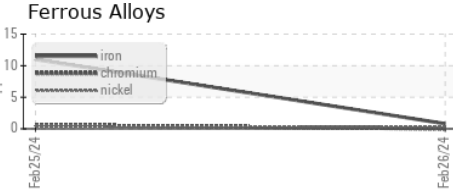
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.12	0.10	0.40	---

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*	>0.05	NEG	NEG	---
Free Water	scalar	Visual*		NEG	NEG	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	45.0	43.0	31.8	---
Visc @ 100°C	cSt	ASTM D7279(m)	8.2	7.8	5.7	---
Viscosity Index (VI)	Scale	ASTM D2270*	158	153	120	---

SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						no image
Bottom						no image

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0070370 **Received** : 14 Mar 2024
Lab Number : **02622002** **Tested** : 15 Mar 2024
Unique Number : 5747121 **Diagnosed** : 15 Mar 2024 - Kevin Marson
Test Package : IND 2 (Additional Tests: KV100, VI)

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.

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