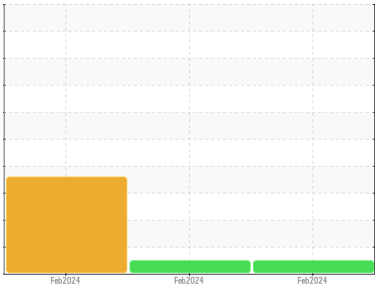
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

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

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		**PC0070365**	PC0070370	PC0057460
Sample Date		Client Info		**26 Feb 2024**	26 Feb 2024	25 Feb 2024
Machine Age	hrs	Client Info		**0**	0	0
Oil Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	Changed	N/A
Sample Status				**NORMAL**	---	SEVERE

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

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	**0**	<1	▲ 11
Chromium	ppm	ASTM D5185(m)	>20	**0**	0	<1
Nickel	ppm	ASTM D5185(m)	>20	**<1**	<1	<1
Titanium	ppm	ASTM D5185(m)		**0**	0	0
Silver	ppm	ASTM D5185(m)		**0**	0	0
Aluminum	ppm	ASTM D5185(m)	>20	**<1**	<1	2
Lead	ppm	ASTM D5185(m)	>20	**0**	0	<1
Copper	ppm	ASTM D5185(m)	>20	**0**	<1	● 8
Tin	ppm	ASTM D5185(m)	>20	**0**	0	<1
Antimony	ppm	ASTM D5185(m)		**0**	0	0
Vanadium	ppm	ASTM D5185(m)		**0**	0	0
Beryllium	ppm	ASTM D5185(m)		**0**	0	0
Cadmium	ppm	ASTM D5185(m)		**0**	0	0

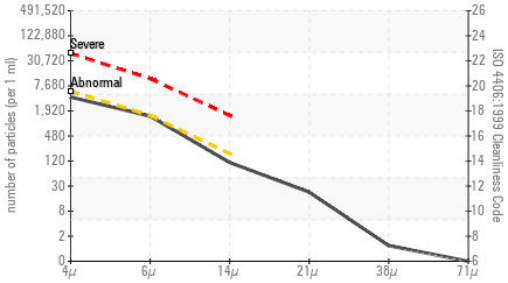
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	**0**	<1	4
Barium	ppm	ASTM D5185(m)	0	**0**	<1	4
Molybdenum	ppm	ASTM D5185(m)	0	**0**	0	1
Manganese	ppm	ASTM D5185(m)	0	**0**	0	0
Magnesium	ppm	ASTM D5185(m)	0	**0**	1	15
Calcium	ppm	ASTM D5185(m)	0	**<1**	21	278
Phosphorus	ppm	ASTM D5185(m)	650	**620**	607	402
Zinc	ppm	ASTM D5185(m)	0	**2**	▲ 30	399
Sulfur	ppm	ASTM D5185(m)	1420	**1380**	1421	1887
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

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

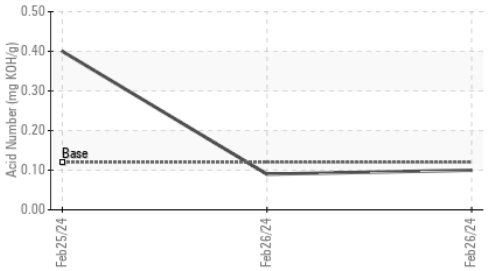
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	**3599**	● 7752	▲ 51693
Particles >6µm		ASTM D7647	>1300	**1256**	285	▲ 3545
Particles >14µm		ASTM D7647	>160	**98**	15	20
Particles >21µm		ASTM D7647	>40	**19**	4	6
Particles >38µm		ASTM D7647	>10	**1**	1	2
Particles >71µm		ASTM D7647	>3	**0**	1	2
Oil Cleanliness		ISO 4406 (c)	>19/17/14	**19/17/14**	● 20/15/11	▲ 23/19/11

OIL ANALYSIS REPORT

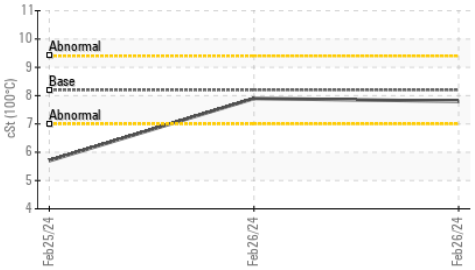
Particle Count



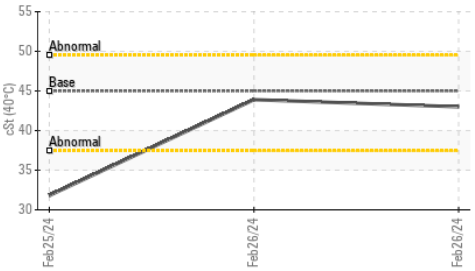
Acid Number



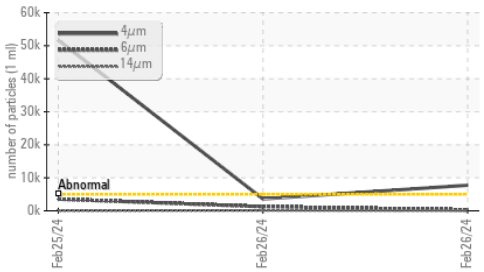
Viscosity @ 100°C



Viscosity @ 40°C



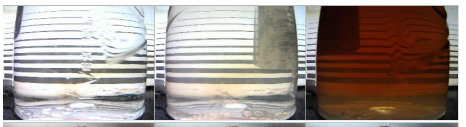
Particle Trend



FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.12	**0.09**	0.10	0.40

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	**NONE**	NONE	NONE
Precipitate	scalar	Visual*	NONE	**NONE**	NONE	NONE
Silt	scalar	Visual*	NONE	**NONE**	NONE	NONE
Debris	scalar	Visual*	NONE	**NONE**	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	**NONE**	NONE	NONE
Appearance	scalar	Visual*	NORML	**NORML**	NORML	NORML
Odor	scalar	Visual*	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	Visual*	>0.05	**NEG**	NEG	NEG
Free Water	scalar	Visual*		**NEG**	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	45.0	**43.9**	43.0	31.8
Visc @ 100°C	cSt	ASTM D7279(m)	8.2	**7.9**	7.8	5.7
Viscosity Index (VI)	Scale	ASTM D2270*	158	**152**	153	120

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
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ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0070365 **Received** : 14 Mar 2024
Lab Number : 02622004 **Tested** : 15 Mar 2024
Unique Number : 5747123 **Diagnosed** : 15 Mar 2024 - Wes Davis
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.

Sema
125 Rue de l`Expansion
Sainte-Flavie, QC
CA G0J 2L0
Contact: Vincent Gagne
vincent.gagne@sema.ca
T: (866)775-7141
F: