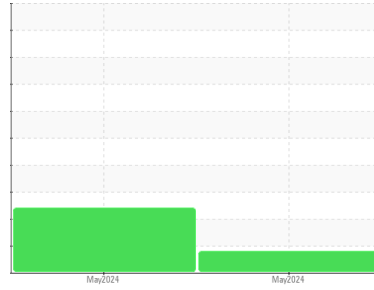




Machine Id
PETRO CANADA ENVIRON MV R 46
Component
New (Unused) Oil
Fluid
PETRO CANADA ENVIRON MV R 46 (--- GAL)



DIAGNOSIS

Recommendation
Il s'agit du relevé de base de cette huile neuve (inutilisée). Le fluide peut servir. Veuillez communiquer avec un représentant LUBE360 Oil Diagnostics au sujet de l'achat d'une trousse d'échantillonnage appropriée à vos besoins. (Customer Sample Comment: Bio oil final in the machine)

Contamination
La propreté du système est acceptable pour votre objectif de propreté ISO 4406. Il n'y a aucun indice de contamination dans le huile (inutilisée) neuve.

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

SAMPLE INFORMATION method limit/base current history1 history2

Sample Number	Client Info	PC0087984	PC0087979	---
Sample Date	Client Info	22 May 2024	09 May 2024	---
Machine Age	hrs Client Info	1	1980	---
Oil Age	hrs Client Info	0	1980	---
Oil Changed	Client Info	N/A	N/A	---
Sample Status		ATTENTION	ABNORMAL	---

CONTAMINATION method limit/base current history1 history2

Water	WC Method	NEG	NEG	---
-------	-----------	------------	-----	-----

WEAR METALS method limit/base current history1 history2

Iron	ppm	ASTM D5185(m)	0	2	---
Chromium	ppm	ASTM D5185(m)	0	0	---
Nickel	ppm	ASTM D5185(m)	0	0	---
Titanium	ppm	ASTM D5185(m)	0	0	---
Silver	ppm	ASTM D5185(m)	0	2	---
Aluminum	ppm	ASTM D5185(m)	0	0	---
Lead	ppm	ASTM D5185(m)	0	0	---
Copper	ppm	ASTM D5185(m)	<1	3	---
Tin	ppm	ASTM D5185(m)	0	0	---
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	<1	<1	---
Barium	ppm	ASTM D5185(m)	<1	0	0	---
Molybdenum	ppm	ASTM D5185(m)	<1	0	0	---
Manganese	ppm	ASTM D5185(m)	<1	0	0	---
Magnesium	ppm	ASTM D5185(m)	<1	<1	3	---
Calcium	ppm	ASTM D5185(m)		41	456	---
Phosphorus	ppm	ASTM D5185(m)	626	625	553	---
Zinc	ppm	ASTM D5185(m)		23	279	---
Sulfur	ppm	ASTM D5185(m)	1236	1319	822	---
Lithium	ppm	ASTM D5185(m)		<1	<1	---

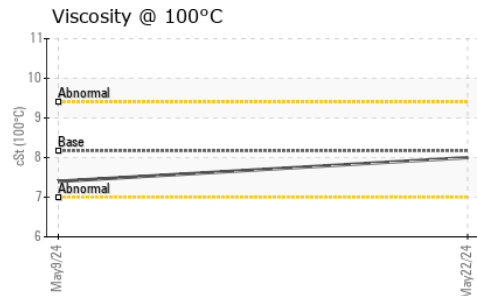
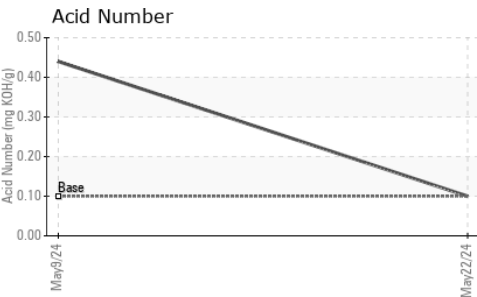
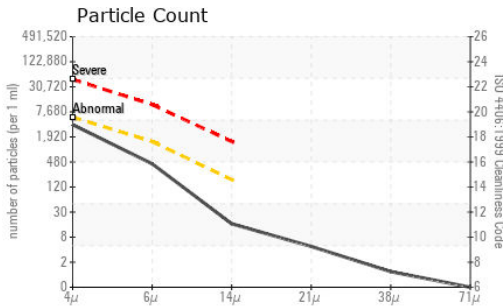
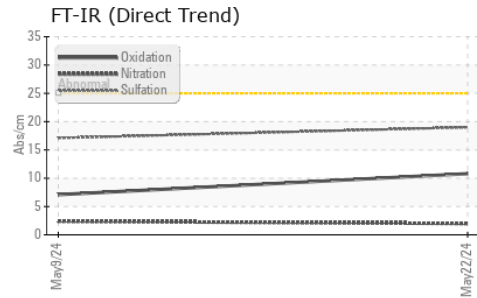
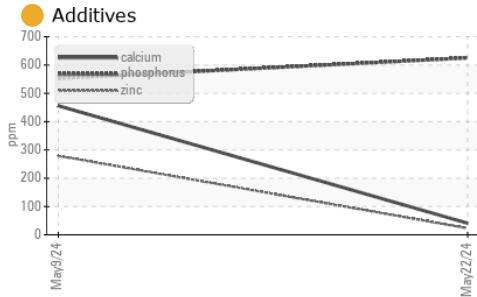
CONTAMINANTS method limit/base current history1 history2

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

INFRA-RED method limit/base current history1 history2

Soot %	%	ASTM D7844*		0	0	---
Nitration	Abs/cm	ASTM D7624*		2.0	2.4	---
Sulfation	Abs.1mm	ASTM D7415*		19.0	17.1	---

OIL ANALYSIS REPORT



FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	3300	6410	---
Particles >6µm	ASTM D7647	>1300	381	694	---
Particles >14µm	ASTM D7647	>160	14	12	---
Particles >21µm	ASTM D7647	>40	4	3	---
Particles >38µm	ASTM D7647	>10	1	1	---
Particles >71µm	ASTM D7647	>3	0	1	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	19/16/11	20/17/11	---

FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	10.8	7.1	---
Acid Number (AN)	mg KOH/g	ASTM D974*	0.10	0.44	---

VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	---
Emulsified Water	scalar	Visual*	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	43.8	46.8
Visc @ 100°C	cSt	ASTM D7279(m)	8.17	8.0	7.4
Viscosity Index (VI)	Scale	ASTM D2270*	162	156	121

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



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0087984
Lab Number : **02638042**
Unique Number : 5787204
Test Package : IND 2 (Additional Tests: FT-IR, ICP-NewOil, KV100, PrtCount, TAN Man, VI)

Received : 28 May 2024
Tested : 29 May 2024
Diagnosed : 29 May 2024 - Kevin Marson

Sema
 125 Rue de l'Expansion
 Sainte-Flavie, QC
 CA G0J 2L0
 Contact: Vincent Gagne
 vincent.gagne@sema.ca
 T: (866)775-7141
 F:

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.