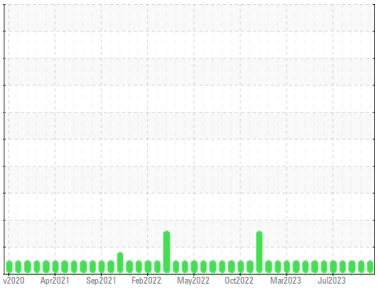
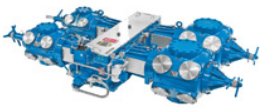
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
K610
Component
Reciprocating Compressor
Fluid
PETRO CANADA SENTRON LD 3000 (--- LTR)

DIAGNOSIS

Recommendation
Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

Contamination
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable.

Fluid Condition
The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**PC0085484**	PC90000473	PC90000456
Sample Date		Client Info		**17 Jan 2024**	31 Oct 2023	11 Sep 2023
Machine Age	hrs	Client Info		**18212**	16657	16219
Oil Age	hrs	Client Info		**3000**	2236	1798
Oil Changed		Client Info		**Changed**	Changed	Not Changd
Sample Status				**NORMAL**	NORMAL	NORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>50	**<1**	2	1
Chromium	ppm	ASTM D5185(m)	>10	**0**	0	0
Nickel	ppm	ASTM D5185(m)		**<1**	0	0
Titanium	ppm	ASTM D5185(m)		**0**	0	0
Silver	ppm	ASTM D5185(m)		**<1**	0	0
Aluminum	ppm	ASTM D5185(m)	>25	**1**	2	1
Lead	ppm	ASTM D5185(m)	>25	**<1**	0	0
Copper	ppm	ASTM D5185(m)	>50	**10**	15	14
Tin	ppm	ASTM D5185(m)	>15	**<1**	0	0
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

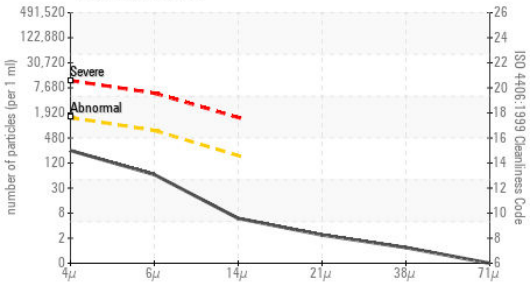
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	5	**1**	1	1
Barium	ppm	ASTM D5185(m)	1	**0**	0	0
Molybdenum	ppm	ASTM D5185(m)	2	**<1**	0	0
Manganese	ppm	ASTM D5185(m)	1	**0**	0	0
Magnesium	ppm	ASTM D5185(m)	5	**7**	7	7
Calcium	ppm	ASTM D5185(m)	1220	**1220**	1293	1254
Phosphorus	ppm	ASTM D5185(m)	298	**261**	295	269
Zinc	ppm	ASTM D5185(m)	350	**295**	335	323
Sulfur	ppm	ASTM D5185(m)	1995	**2108**	---	---
Lithium	ppm	ASTM D5185(m)		**<1**	0	0

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	**1**	2	1
Sodium	ppm	ASTM D5185(m)		**<1**	1	0
Potassium	ppm	ASTM D5185(m)	>20	**1**	0	0
Water	%	ASTM D6304*	>0.1	**0.003**	---	---
ppm Water	ppm	ASTM D6304*	>1000	**31**	---	---

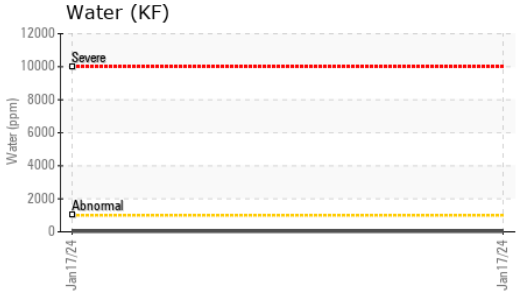
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		**0**	---	---
Nitration	Abs/cm	ASTM D7624*		**2.4**	---	---
Nitration(Diff)	Abs/cm	ASTM E2412*		**0.4**	---	---
Sulfation	Abs/.1mm	ASTM D7415*		**13.7**	---	---
Sulfation(Diff)	Abs/cm	ASTM E2412*		**0.7**	---	---

OIL ANALYSIS REPORT

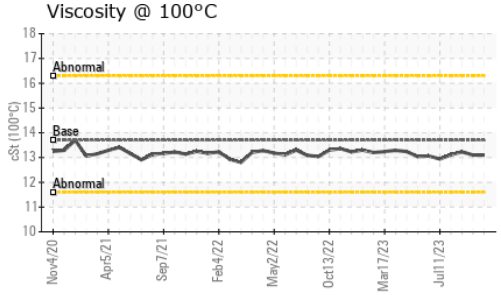
Particle Count



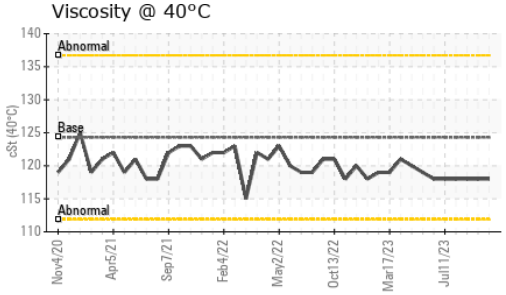
Water (KF)



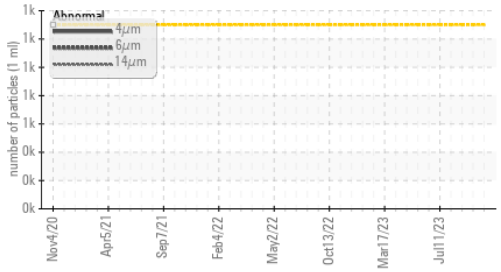
Viscosity @ 100°C



Viscosity @ 40°C



Particle Trend



FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>1300	**211**	---	---
Particles >6µm		ASTM D7647	>640	**56**	---	---
Particles >14µm		ASTM D7647	>160	**5**	---	---
Particles >21µm		ASTM D7647	>40	**2**	---	---
Particles >38µm		ASTM D7647	>10	**1**	---	---
Particles >71µm		ASTM D7647	>3	**0**	---	---
Oil Cleanliness		ISO 4406 (c)	>17/16/14	**15/13/10**	---	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*		**7.0**	---	---
Oxidation(Diff)	Abs/cm	ASTM E2412*		**1.3**	---	---
Acid Number (AN)	mg KOH/g	ASTM D974*	0.86	**0.17**	---	---

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*	>0.1	**NEG**	---	---
Free Water	scalar	Visual*		**NEG**	---	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	124.3	**118**	118	118
Visc @ 100°C	cSt	ASTM D7279(m)	13.7	**13.1**	13.1	13.23
Viscosity Index (VI)	Scale	ASTM D2270*	106	**105**	105	107

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

ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0085484 **Recieved** : 02 Feb 2024
Lab Number : 02613140 **Diagnosed** : 05 Feb 2024
Unique Number : 5722235 **Diagnostician** : Bill Quesnel
Test Package : PLANT (Additional Tests: FT-IR, FT-IR(DIFF), KF, 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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