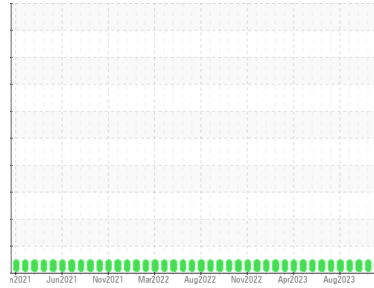


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
K601
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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PC0085490	PC90000842	PC90000813
Sample Date	Client Info		17 Jan 2024	25 Oct 2023	11 Sep 2023
Machine Age	hrs	Client Info	29659	27671	26746
Oil Age	hrs	Client Info	0	1258	333
Oil Changed	Client Info		Not Chngd	Not Chngd	Not Chngd
Sample Status			NORMAL	NORMAL	NORMAL

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>50	<1	0	0
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)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>25	1	1	1
Lead	ppm	ASTM D5185(m)	>25	<1	0	0
Copper	ppm	ASTM D5185(m)	>50	1	3	2
Tin	ppm	ASTM D5185(m)	>15	0	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	0	0	0
Manganese	ppm	ASTM D5185(m)	1	0	0	0
Magnesium	ppm	ASTM D5185(m)	5	7	6	6
Calcium	ppm	ASTM D5185(m)	1220	1225	1168	1240
Phosphorus	ppm	ASTM D5185(m)	298	266	272	268
Zinc	ppm	ASTM D5185(m)	350	299	305	323
Sulfur	ppm	ASTM D5185(m)	1995	2118	---	---
Lithium	ppm	ASTM D5185(m)		<1	0	0

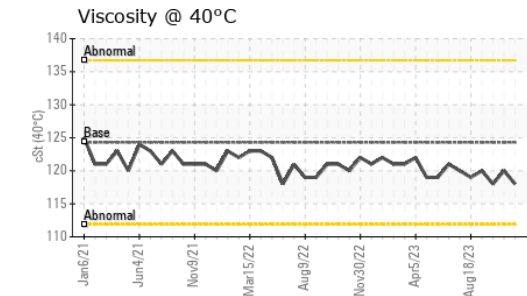
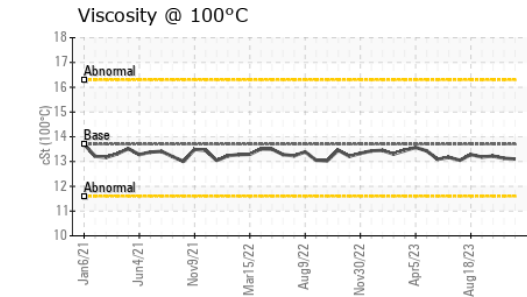
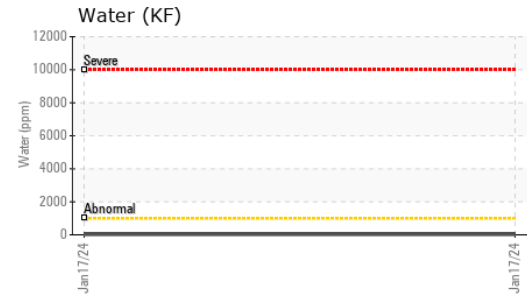
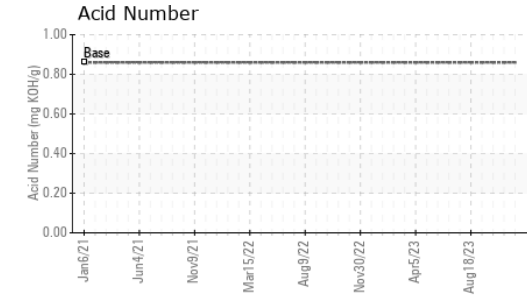
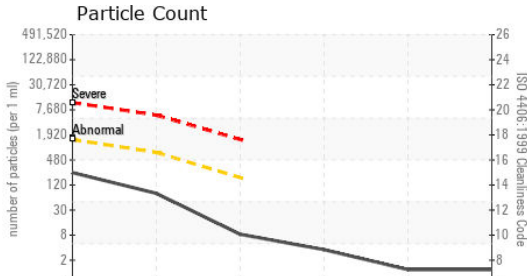
CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>25	1	2	2
Sodium	ppm	ASTM D5185(m)		<1	0	0
Potassium	ppm	ASTM D5185(m)	>20	<1	0	0
Water	%	ASTM D6304*	>0.1	0.003	---	---
ppm Water	ppm	ASTM D6304*	>1000	26	---	---

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*		0.3	---	---
Sulfation	Abs/.1mm	ASTM D7415*		13.7	---	---
Sulfation(Diff)	Abs/cm	ASTM E2412*		0.6	---	---

OIL ANALYSIS REPORT



FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>1300	210	---	---	
Particles >6µm	ASTM D7647	>640	67	---	---	
Particles >14µm	ASTM D7647	>160	7	---	---	
Particles >21µm	ASTM D7647	>40	3	---	---	
Particles >38µm	ASTM D7647	>10	1	---	---	
Particles >71µm	ASTM D7647	>3	1	---	---	
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*		1.2	---	---
Acid Number (AN)	mg KOH/g	ASTM D974*	0.86	0.23	---	---

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	120	118
Visc @ 100°C	cSt	ASTM D7279(m)	13.7	13.1	13.13	13.22
Viscosity Index (VI)	Scale	ASTM D2270*	106	105	103	106

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



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0085490 **Received** : 02 Feb 2024
Lab Number : **02613132** **Diagnosed** : 05 Feb 2024
Unique Number : 5722227 **Diagnostician** : Bill Quesnel
Test Package : PLANT (Additional Tests: FT-IR, FT-IR(DIFF), KF, KV100, VI)

NuVista Energy
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 Grande Prairie, AB
 CA T8W 0K8
 Contact: Eldon Weaver
 eweaver@nvaenergy.com
 T:
 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.