

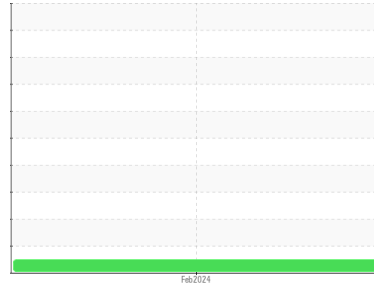
OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
[450264319]
Machine Id
PE-65205
Component
Unknown Component
Fluid
{not provided} (--- GAL)



DIAGNOSIS

Recommendation
Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample. Please provide more complete information on your next sample.

Wear
All component wear rates are normal.

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

Fluid Condition
Viscosity of sample indicates oil is within ISO 46 range, advise investigate. The AN level is acceptable for this fluid. The condition of the sample is suitable for further service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PC	---	---
Sample Date	Client Info		13 Feb 2024	---	---
Machine Age	hrs Client Info		0	---	---
Oil Age	hrs Client Info		0	---	---
Oil Changed	Client Info		N/A	---	---
Sample Status			NORMAL	---	---

CONTAMINATION

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

WEAR METALS

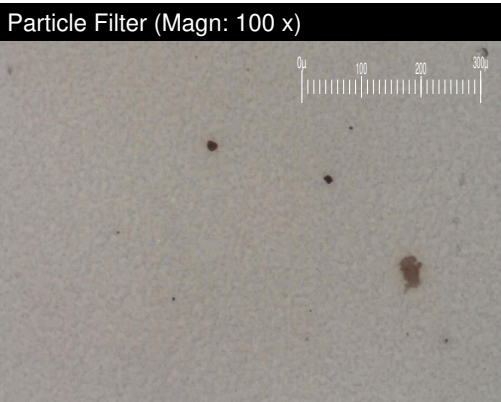
	method	limit/base	current	history1	history2
PQ	ASTM D8184*		0	---	---
Iron	ppm ASTM D5185(m)		2	---	---
Chromium	ppm ASTM D5185(m)		0	---	---
Nickel	ppm ASTM D5185(m)		<1	---	---
Titanium	ppm ASTM D5185(m)		0	---	---
Silver	ppm ASTM D5185(m)		0	---	---
Aluminum	ppm ASTM D5185(m)		<1	---	---
Lead	ppm ASTM D5185(m)		<1	---	---
Copper	ppm ASTM D5185(m)		4	---	---
Tin	ppm ASTM D5185(m)		0	---	---
Antimony	ppm ASTM D5185(m)		0	---	---
Vanadium	ppm ASTM D5185(m)		0	---	---
Beryllium	ppm ASTM D5185(m)		0	---	---
Cadmium	ppm ASTM D5185(m)		0	---	---

ADDITIVES

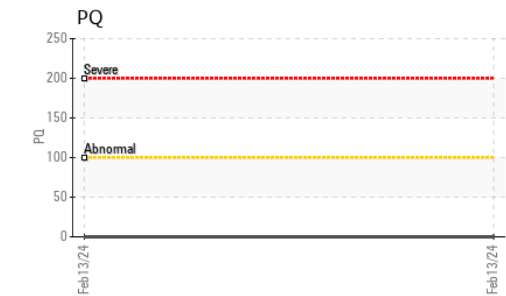
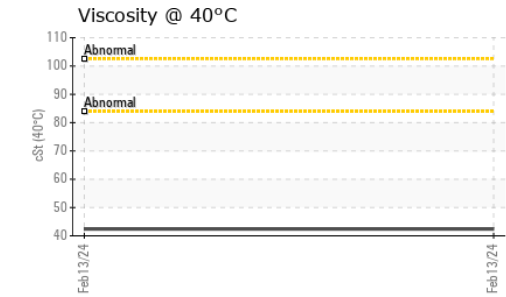
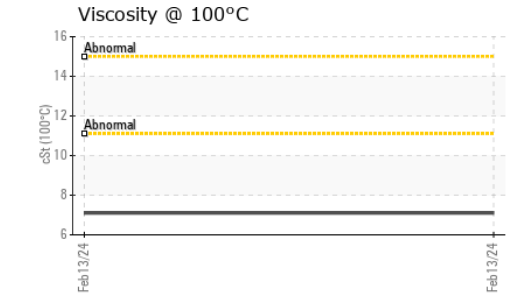
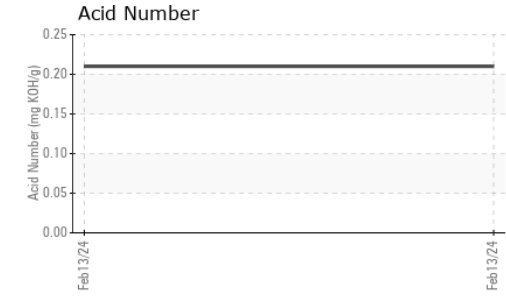
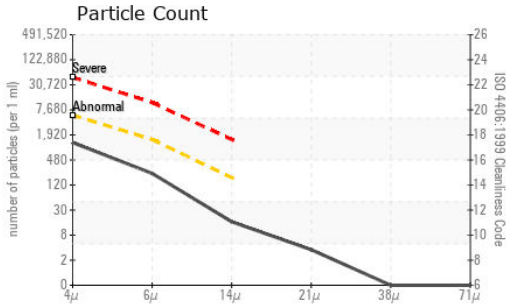
	method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m)		0	---	---
Barium	ppm ASTM D5185(m)		0	---	---
Molybdenum	ppm ASTM D5185(m)		0	---	---
Manganese	ppm ASTM D5185(m)		0	---	---
Magnesium	ppm ASTM D5185(m)		0	---	---
Calcium	ppm ASTM D5185(m)		4	---	---
Phosphorus	ppm ASTM D5185(m)		319	---	---
Zinc	ppm ASTM D5185(m)		37	---	---
Sulfur	ppm ASTM D5185(m)		3243	---	---
Lithium	ppm ASTM D5185(m)		<1	---	---

CONTAMINANTS

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



OIL ANALYSIS REPORT



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC
Lab Number : **02621421**
Unique Number : 5746540
Test Package : MAR 2 (Additional Tests: BottomAnalysis, FILTERPATCH, KV100, PQ, PRTCOUNT, PrtFilter, Viscosity Index (VI))
Received : 12 Mar 2024
Tested : 14 Mar 2024
Diagnosed : 14 Mar 2024 - Kevin Marson

Suncor - Terra Nova Projects
 Scotia Centre, 235 Water Street
 St. John's, NL
 CA A1C 1B6
 Contact: Josh Hynes
 joshynes@suncor.com
 T: (709)778-3575
 F: (709)724-2835

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.

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	1103	---	---	
Particles >6µm	ASTM D7647	>1300	201	---	---	
Particles >14µm	ASTM D7647	>160	14	---	---	
Particles >21µm	ASTM D7647	>40	3	---	---	
Particles >38µm	ASTM D7647	>10	0	---	---	
Particles >71µm	ASTM D7647	>3	0	---	---	
Oil Cleanliness	ISO 4406 (c)	>19/17/14	17/15/11	---	---	

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		0.21	---	---

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	---	---
Free Water	scalar	Visual*		NEG	---	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)		42.4	---	---
Visc @ 100°C	cSt	ASTM D7279(m)		7.1	---	---
Viscosity Index (VI)	Scale	ASTM D2270*		128	---	---

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