



OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
VORTEX 9924

Component
Circulating Oil

Fluid
PETRO CANADA SYNDURO SHB ISO 460 (10 GAL)



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

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	WC0638032	---	---
Sample Date	Client Info	26 Sep 2023	---	---
Machine Age	hrs Client Info	5	---	---
Oil Age	hrs Client Info	5	---	---
Oil Changed	Client Info	Not Chngd	---	---
Sample Status		NORMAL	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185(m)	>20	4	---	---
Chromium ppm ASTM D5185(m)	>20	0	---	---
Nickel ppm ASTM D5185(m)	>20	<1	---	---
Titanium ppm ASTM D5185(m)		0	---	---
Silver ppm ASTM D5185(m)		0	---	---
Aluminum ppm ASTM D5185(m)	>20	0	---	---
Lead ppm ASTM D5185(m)	>20	<1	---	---
Copper ppm ASTM D5185(m)	>20	<1	---	---
Tin ppm ASTM D5185(m)	>20	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)		<1	---	---
Barium ppm ASTM D5185(m)	5.0	<1	---	---
Molybdenum ppm ASTM D5185(m)		0	---	---
Manganese ppm ASTM D5185(m)		0	---	---
Magnesium ppm ASTM D5185(m)	5.0	0	---	---
Calcium ppm ASTM D5185(m)	5.0	1	---	---
Phosphorus ppm ASTM D5185(m)	100	83	---	---
Zinc ppm ASTM D5185(m)	5.0	2	---	---
Sulfur ppm ASTM D5185(m)	1900	1830	---	---
Lithium ppm ASTM D5185(m)		1	---	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185(m)	>15	4	---	---
Sodium ppm ASTM D5185(m)		<1	---	---
Potassium ppm ASTM D5185(m)	>20	0	---	---

FLUID CLEANLINESS

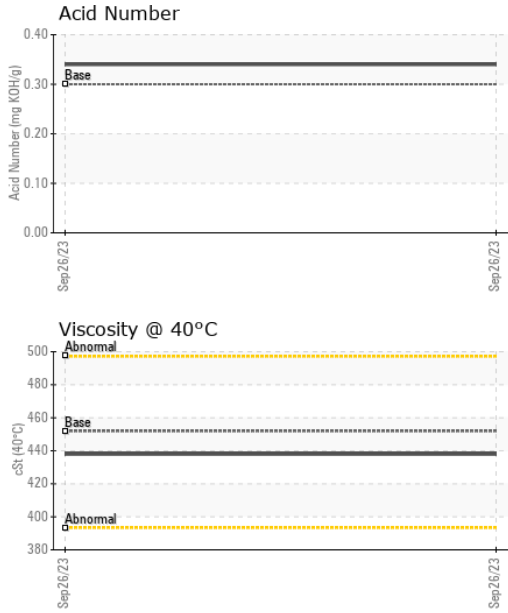
method	limit/base	current	history1	history2
Particles >4µm ASTM D7647	>5000	101777	---	---
Particles >6µm ASTM D7647	>1300	19944	---	---
Particles >14µm ASTM D7647	>160	1143	---	---
Particles >21µm ASTM D7647	>40	314	---	---
Particles >38µm ASTM D7647	>10	9	---	---
Particles >71µm ASTM D7647	>3	1	---	---
Oil Cleanliness ISO 4406 (c)	>19/17/14	24/21/17	---	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g ASTM D974*	0.3	0.34	---	---



OIL ANALYSIS REPORT



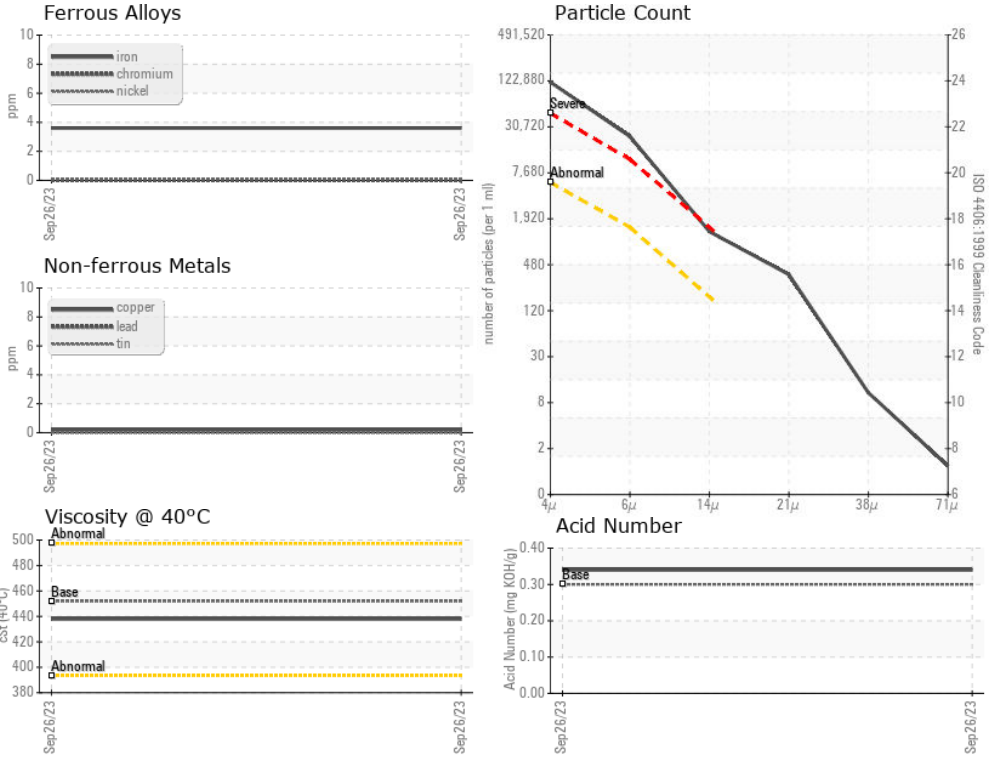
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---
Precipitate	scalar	Visual*	NONE	NONE	---	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
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)	452	438	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
---------------	--------	------------	---------	----------	----------

Color				no image	no image
Bottom				no image	no image

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0638032 **Received** : 28 Sep 2023
Lab Number : 02585968 **Diagnosed** : 02 Oct 2023
Unique Number : 5655034 **Diagnostician** : Kevin Marson
Test Package : IND 2 (Additional Tests: PrtCount, TAN Man)

SAMCO MACHINERY LTD
 351 PASSMORE AVE
 TORONTO, ON
 CA M1V 3N8
 Contact: Paul Kim
 pkim@samco-machinery.com
 T: (416)285-0619
 F: (416)285-7469

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.