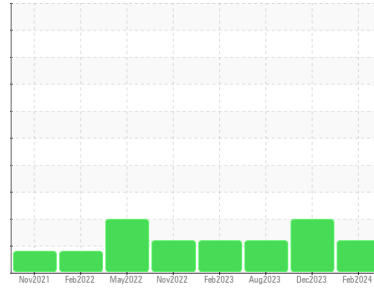


Area
Roll Shop
Machine Id
[Roll Shop] #1 Grinder-BIG GRINDER TELE-TABLE (Zcarriage)
Component
Circulating System
Fluid
PETRO CANADA ACCUFLO TK 68 (--- GAL)



DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

The oil viscosity is lower than normal. The AN level is acceptable for this fluid.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PCA0113019	PCA0107741	PCA0101462
Sample Date	Client Info	26 Feb 2024	26 Dec 2023	14 Aug 2023
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		ABNORMAL	ABNORMAL	ABNORMAL

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	8	6	5
Chromium	ppm	ASTM D5185m	0	0	0
Nickel	ppm	ASTM D5185m	0	0	0
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m	0	0	0
Lead	ppm	ASTM D5185m	1	<1	0
Copper	ppm	ASTM D5185m	11	7	<1
Tin	ppm	ASTM D5185m	0	0	0
Vanadium	ppm	ASTM D5185m	<1	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185m	0	0	0	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	0	0	0	
Manganese	ppm	ASTM D5185m	<1	<1	<1	
Magnesium	ppm	ASTM D5185m	1	0	0	
Calcium	ppm	ASTM D5185m	700	9	14	4
Phosphorus	ppm	ASTM D5185m	73	84	83	20
Zinc	ppm	ASTM D5185m	0	27	62	0
Sulfur	ppm	ASTM D5185m	4200	2149	2117	3061

CONTAMINANTS

method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	<1	<1	<1	
Sodium	ppm	ASTM D5185m	2	3	3	
Potassium	ppm	ASTM D5185m	>20	0	0	0
Water	%	ASTM D6304	NEG	NEG	NEG	

FLUID CLEANLINESS

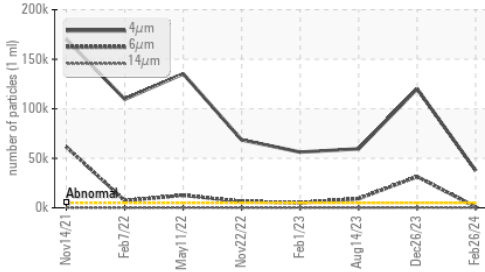
method	limit/base	current	history1	history2	
Particles >4µm	ASTM D7647	>5000	▲ 37596	▲ 120024	▲ 59541
Particles >6µm	ASTM D7647	>1300	961	▲ 31492	▲ 9284
Particles >14µm	ASTM D7647	>160	34	▲ 210	97
Particles >21µm	ASTM D7647	>40	8	17	11
Particles >38µm	ASTM D7647	>10	0	0	0
Particles >71µm	ASTM D7647	>3	0	0	0
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 22/17/12	▲ 24/22/15	▲ 23/20/14

FLUID DEGRADATION

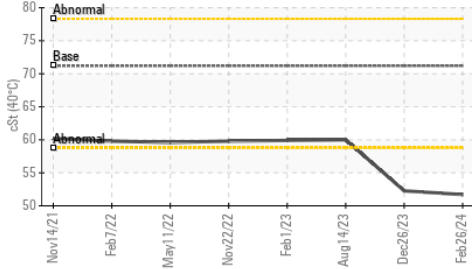
method	limit/base	current	history1	history2		
Acid Number (AN)	mg KOH/g	ASTM D8045	0.65	0.056	0.12	0.09

OIL ANALYSIS REPORT

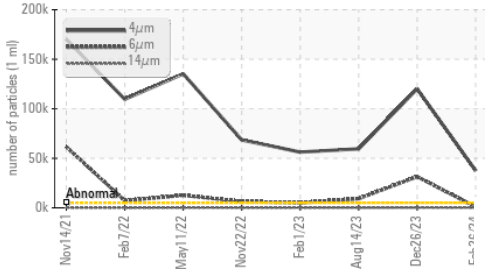
▲ Particle Trend



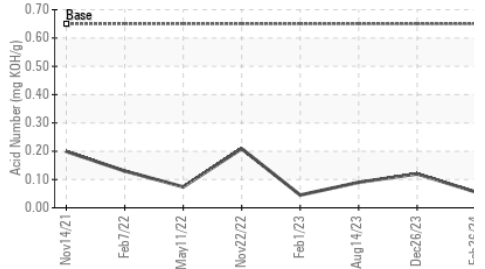
▲ Viscosity @ 40°C



▲ Particle Trend



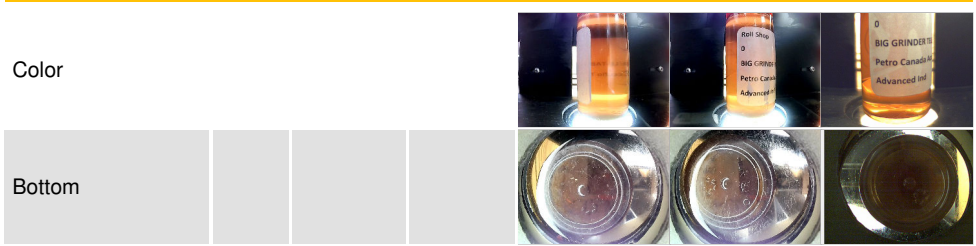
Acid Number



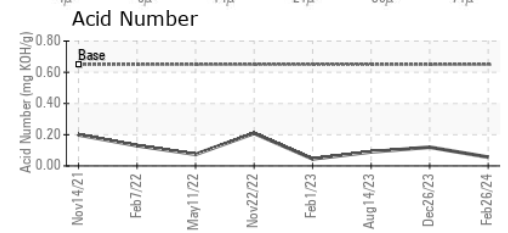
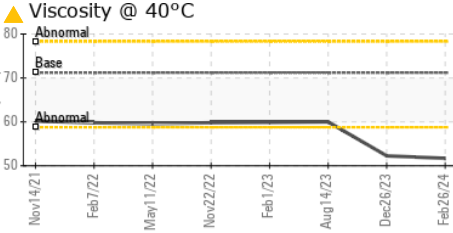
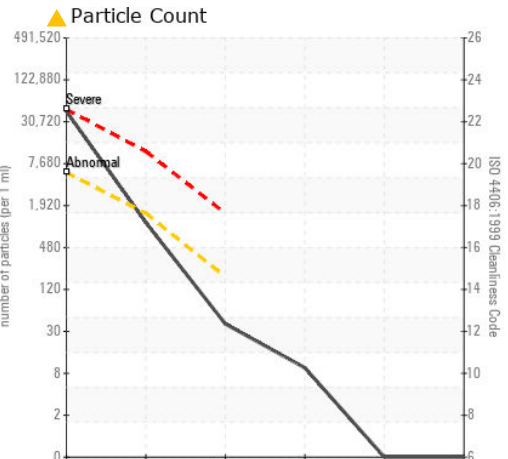
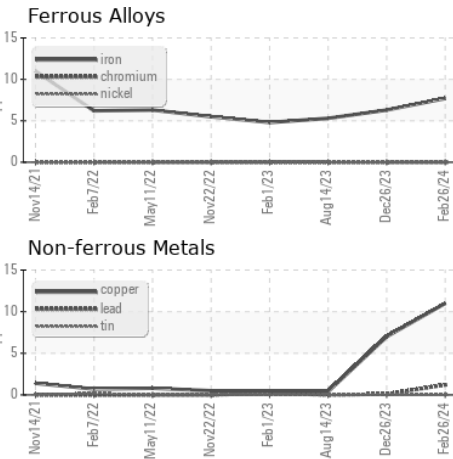
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	NEG	NEG	NEG
Free Water	scalar	*Visual	NEG	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	71.2 ▲ 51.7	▲ 52.27	60.0

SAMPLE IMAGES



GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0113019
Lab Number : 06102441
Unique Number : 10900671
Test Package : PLANT

SDI - Steel Dynamics Inc. - Heartland
 455 West Industrial Drive
 Terre Haute, IN
 US 47802
 Contact: BRAD ELLIS
 brad.ellis@steeldynamics.com

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

T:
F: