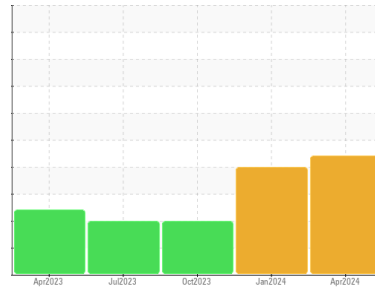




OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Area

FP-010

Machine Id

B73645 - AUGER CONVEYOR ENGINEERING RAW MATERIAL TRANSFER KSI #8

Component

Auger

Fluid

PETRO CANADA SYNDURO SHB ISO 460 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. We advise that you follow the water drain-off procedure for this component. We recommend an early resample to monitor this condition. There is too much water present in this sample to perform a particle count.

Wear

All component wear rates are normal.

Contamination

There is a moderate concentration of water present in the oil. Free water present.

Fluid Condition

Viscosity of sample indicates oil is within ISO 320 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0907957	WC0880537	WC0850180
Sample Date	Client Info		09 Apr 2024	09 Jan 2024	08 Oct 2023
Machine Age	hrs	Client Info	0	0	0
Oil Age	hrs	Client Info	0	0	0
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			ABNORMAL	SEVERE	ABNORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >150	60	▲ 113	8
Chromium	ppm	ASTM D5185m >10	0	<1	0
Nickel	ppm	ASTM D5185m >10	0	0	0
Titanium	ppm	ASTM D5185m	0	0	<1
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >25	0	2	0
Lead	ppm	ASTM D5185m >100	0	<1	0
Copper	ppm	ASTM D5185m >50	0	2	<1
Tin	ppm	ASTM D5185m >10	<1	0	0
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	<1	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	0
Barium	ppm	ASTM D5185m 5.0	0	2	1
Molybdenum	ppm	ASTM D5185m	0	0	0
Manganese	ppm	ASTM D5185m	2	3	<1
Magnesium	ppm	ASTM D5185m 5.0	0	<1	3
Calcium	ppm	ASTM D5185m 5.0	4	15	7
Phosphorus	ppm	ASTM D5185m 60	393	179	140
Zinc	ppm	ASTM D5185m 5.0	25	22	41
Sulfur	ppm	ASTM D5185m 1900	1064	3658	3306

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	7	9	4
Sodium	ppm	ASTM D5185m	5	9	<1
Potassium	ppm	ASTM D5185m >20	8	22	0
Water	%	ASTM D6304 >0.1	▲ 0.489	▲ 2.66	---
ppm Water	ppm	ASTM D6304 >1000	▲ 4890	▲ 26600	---

FLUID CLEANLINESS

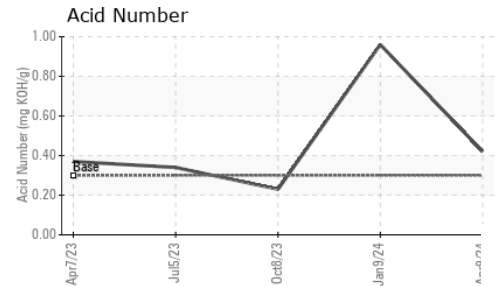
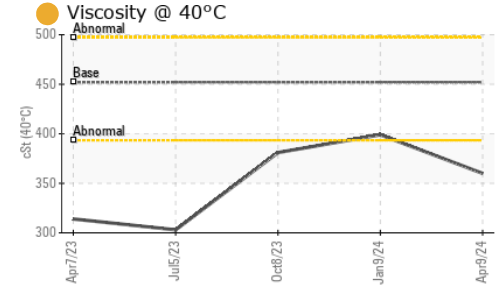
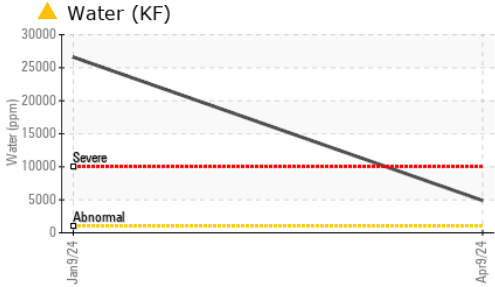
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	---	---	▲ 95115
Particles >6µm	ASTM D7647	>2500	---	---	▲ 17137
Particles >14µm	ASTM D7647	>320	---	---	▲ 506
Particles >21µm	ASTM D7647	>80	---	---	80
Particles >38µm	ASTM D7647	>20	---	---	4
Particles >71µm	ASTM D7647	>4	---	---	3
Oil Cleanliness	ISO 4406 (c)	>20/18/15	---	---	▲ 24/21/16

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.3	0.42	0.96	0.23



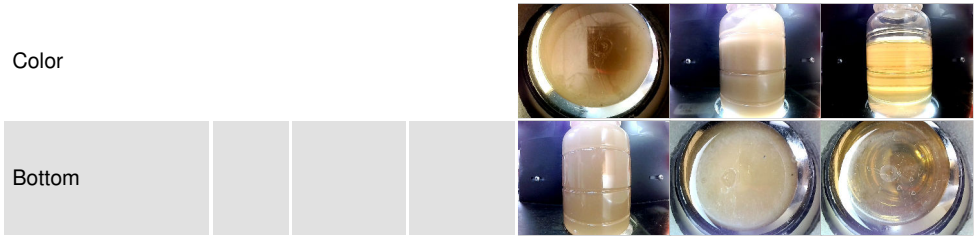
OIL ANALYSIS REPORT



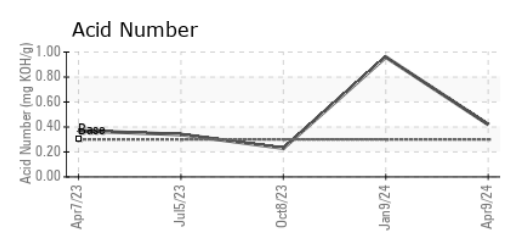
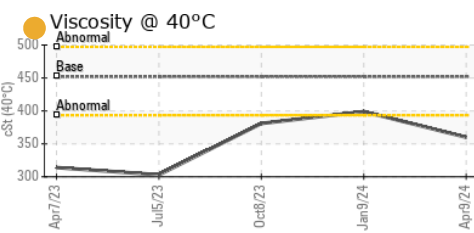
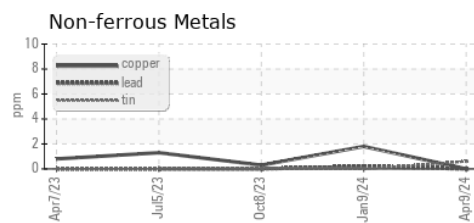
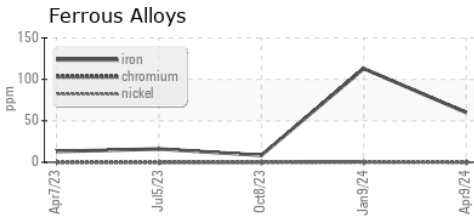
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	● HAZY	NORML
Odor	scalar	*Visual	NORML	● NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	▲ 0.2%	▲ 0.2%
Free Water	scalar	*Visual		▲ 2.0	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	452	● 360	399

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0907957 **Received** : 16 Apr 2024
Lab Number : 06150314 **Tested** : 18 Apr 2024
Unique Number : 10980392 **Diagnosed** : 18 Apr 2024 - Don Baldrige
Test Package : IND 2 (Additional Tests: KF, PrtCount)

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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)