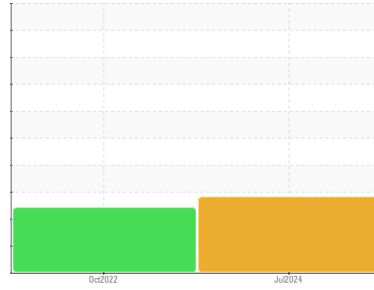


OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Area

CRANES

Machine Id

MA-04001 - AFTER CRANE HYDRAULIC TANK

Component

Tank Hydraulic System

Fluid

PETRO CANADA TRAXON 80W90 (--- GAL)

DIAGNOSIS

Recommendation

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. The fluid was specified as PETRO CANADA TRAXON 80W90, however, a fluid match indicates that this fluid is Mineral ATF. Please confirm the oil type and grade on your next sample. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with 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 22 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. 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		PC0080136	PC0040457	---
Sample Date	Client Info		15 Jul 2024	10 Oct 2022	---
Machine Age	hrs	Client Info	0	0	---
Oil Age	hrs	Client Info	0	0	---
Oil Changed	Client Info		N/A	N/A	---
Sample Status			ABNORMAL	ABNORMAL	---

CONTAMINATION	method	limit/base	current	history1	history2
Water	WC Method	>0.05	NEG	NEG	---

WEAR METALS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >20	8	7	---
Chromium	ppm	ASTM D5185(m) >10	1	1	---
Nickel	ppm	ASTM D5185(m) >10	<1	<1	---
Titanium	ppm	ASTM D5185(m)	0	0	---
Silver	ppm	ASTM D5185(m)	<1	0	---
Aluminum	ppm	ASTM D5185(m) >10	0	0	---
Lead	ppm	ASTM D5185(m) >20	<1	1	---
Copper	ppm	ASTM D5185(m) >20	3	3	---
Tin	ppm	ASTM D5185(m) >10	0	<1	---
Antimony	ppm	ASTM D5185(m)	<1	<1	---
Vanadium	ppm	ASTM D5185(m)	0	0	---
Beryllium	ppm	ASTM D5185(m)	0	0	---
Cadmium	ppm	ASTM D5185(m)	0	0	---

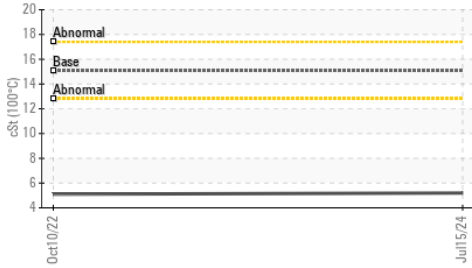
ADDITIVES	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 243	101	106	---
Barium	ppm	ASTM D5185(m) 1	19	23	---
Molybdenum	ppm	ASTM D5185(m)	0	<1	---
Manganese	ppm	ASTM D5185(m)	0	<1	---
Magnesium	ppm	ASTM D5185(m) 2	<1	<1	---
Calcium	ppm	ASTM D5185(m) 6	46	68	---
Phosphorus	ppm	ASTM D5185(m) 987	264	321	---
Zinc	ppm	ASTM D5185(m) 1	67	67	---
Sulfur	ppm	ASTM D5185(m) 21530	778	843	---
Lithium	ppm	ASTM D5185(m)	<1	<1	---

CONTAMINANTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >15	1	2	---
Sodium	ppm	ASTM D5185(m)	6	6	---
Potassium	ppm	ASTM D5185(m) >20	<1	<1	---

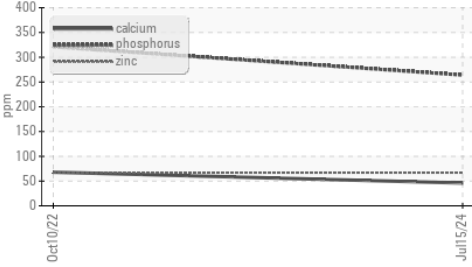
FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	1276	1104	---
Particles >6µm	ASTM D7647	>1300	303	283	---
Particles >14µm	ASTM D7647	>160	31	30	---
Particles >21µm	ASTM D7647	>40	9	6	---
Particles >38µm	ASTM D7647	>10	1	0	---
Particles >71µm	ASTM D7647	>3	0	0	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	17/15/12	17/15/12	---

OIL ANALYSIS REPORT

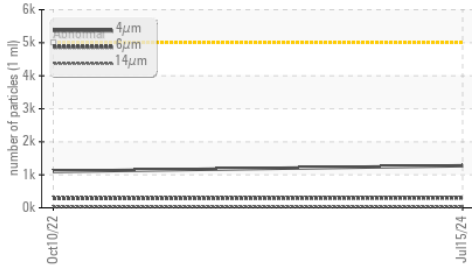
▲ Viscosity @ 100°C



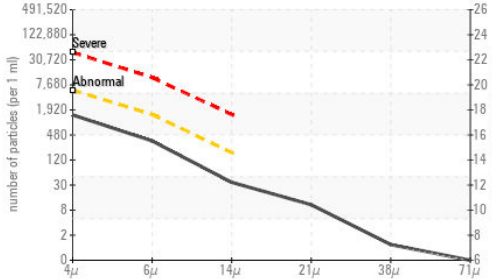
● Additives



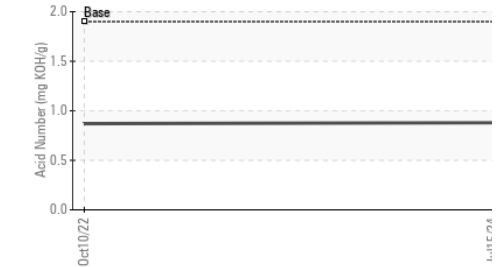
▶ Particle Trend



Particle Count



Acid Number



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0080136 **Received** : 16 Jul 2024
Lab Number : **02648136** **Tested** : 17 Jul 2024
Unique Number : 5813688 **Diagnosed** : 18 Jul 2024 - Kevin Marson
Test Package : IND 2 (Additional Tests: KV100, VI)

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.

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

FLUID DEGRADATION method limit/base current history1 history2

Acid Number (AN)	mg KOH/g	ASTM D974*	1.9	0.88	0.87	---
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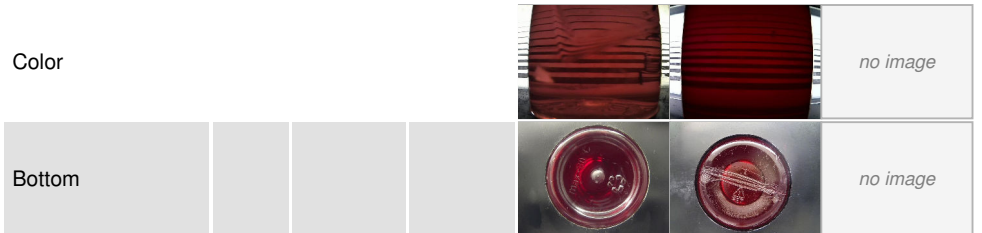
VISUAL method limit/base current history1 history2

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*	>0.05	NEG	NEG	---
Free Water	scalar	Visual*		NEG	NEG	---

FLUID PROPERTIES method limit/base current history1 history2

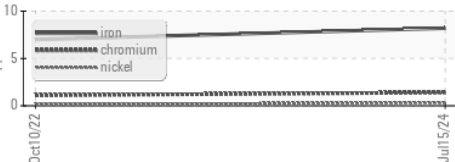
Visc @ 40°C	cSt	ASTM D7279(m)	141.0	▲ 24.3	▲ 24.2	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.06	▲ 5.2	▲ 5.1	---
Viscosity Index (VI)	Scale	ASTM D2270*	108	151	144	---

SAMPLE IMAGES method limit/base current history1 history2

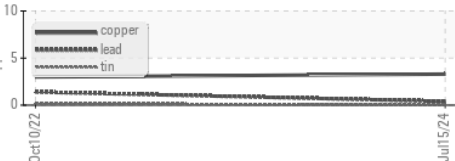


GRAPHS

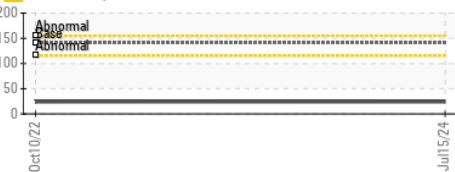
Ferrous Alloys



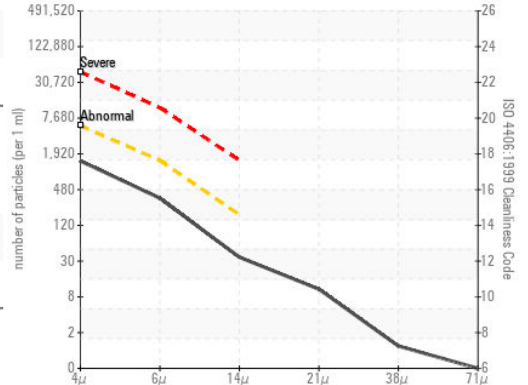
Non-ferrous Metals



▲ Viscosity @ 40°C



Particle Count



Acid Number

