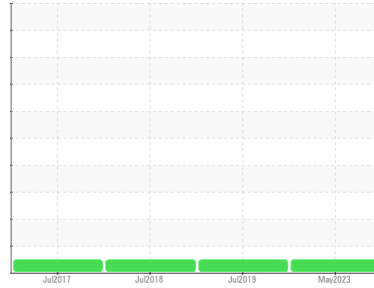




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
TRI-CON INDUSTRIES, MANUFACTURING
 Machine Id
IMM-002 Milicron 450 ton (S/N H50A0100016)
 Component
Hydraulic System
 Fluid
MOBIL DTE 25 (--- 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. The amount and size of particulates present in the system are acceptable.

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	SBP0004077	SBP96440044	SBP90476026
Sample Date	Client Info	09 May 2023	15 Jul 2019	02 Jul 2018
Machine Age	hrs Client Info	0	0	0
Oil Age	hrs Client Info	0	0	0
Oil Changed	Client Info	Not Changed	N/A	N/A
Sample Status		NORMAL	NORMAL	NORMAL

WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184	15	---	---
Iron	ppm ASTM D5185m >20	24	35	15
Chromium	ppm ASTM D5185m >20	1	1	1
Nickel	ppm ASTM D5185m >20	0	0	0
Titanium	ppm ASTM D5185m	0	0	0
Silver	ppm ASTM D5185m	0	0	0
Aluminum	ppm ASTM D5185m >20	<1	0	0
Lead	ppm ASTM D5185m >20	0	0	1
Copper	ppm ASTM D5185m >20	24	36	32
Tin	ppm ASTM D5185m >20	0	0	0
Vanadium	ppm ASTM D5185m	0	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	0	0
Magnesium	ppm ASTM D5185m	0	1	1
Calcium	ppm ASTM D5185m	82	100	109
Phosphorus	ppm ASTM D5185m	443	530	535
Zinc	ppm ASTM D5185m	635	715	735
Sulfur	ppm ASTM D5185m	4038	---	---

CONTAMINANTS

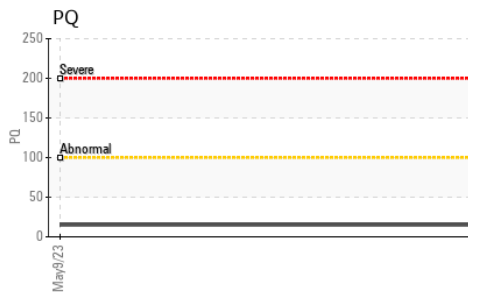
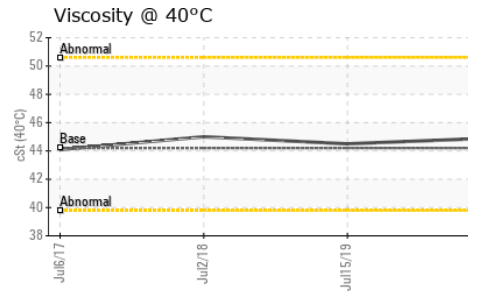
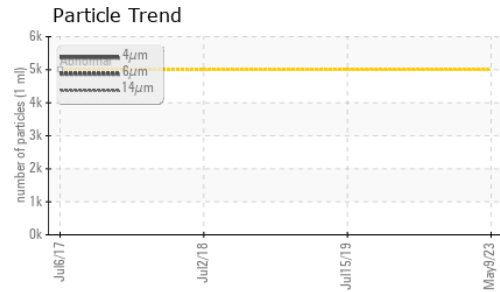
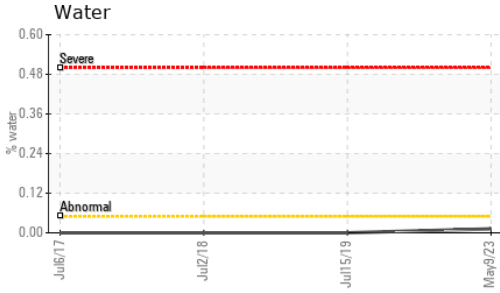
method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >15	2	3	3
Sodium	ppm ASTM D5185m	3	2	2
Potassium	ppm ASTM D5185m >20	0	0	0
Chlorine	ppm ASTM D5185m	---	0	0
Water	% ASTM D6304 >0.05	0.012	0	0
ppm Water	ppm ASTM D6304 >500	128.8	---	---

FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	418	---	---
Particles >6µm	ASTM D7647 >1300	105	---	---
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	16/14/11	---	---



OIL ANALYSIS REPORT

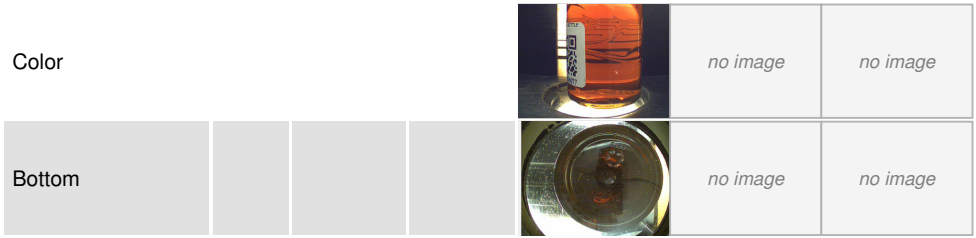


FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.70	---	---

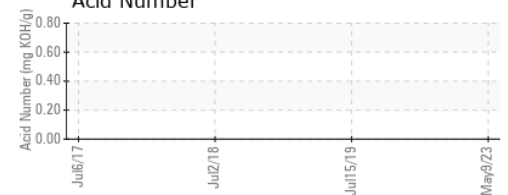
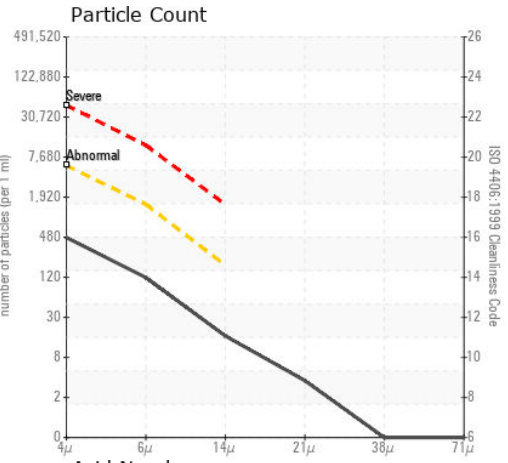
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.05	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	44.2	44.9	44.5

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



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : SBP0004077
Lab Number : 05857243
Unique Number : 10486598
Test Package : PLANT
Received : 25 May 2023
Diagnosed : 31 May 2023
Diagnostician : Jonathan Hester

TRI-CON INDUSTRIES MANUFACTURING - 710343
 4000 NW 44th Street
 Lincoln, NE
 US 68524
 Contact: Pat Hain
 pat.hain@tstech.com
 T: (402)470-3311
 F:

Certificate L2367
 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)