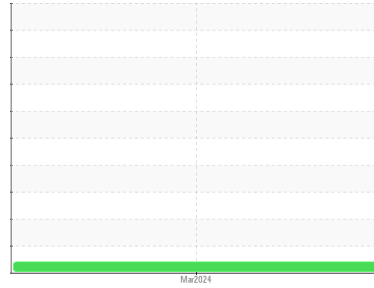


OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Machine Id
TULA
 Component
Heat Transfer Fluid
 Fluid
 {not provided} (--- LTR)

DIAGNOSIS

Recommendation
 The fluid is suitable for further service. Resample at the next service interval to monitor. All tests and evaluation performed at WearCheck Canada.

Fluid Condition
 Visc @ 40°C is abnormally low.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		TO10003408	---	---
Sample Date	Client Info		22 Mar 2024	---	---
Machine Age	hrs	Client Info	0	---	---
Oil Age	hrs	Client Info	0	---	---
Oil Changed	Client Info		N/A	---	---
Sample Status			ABNORMAL	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >200	6	---	---
Chromium	ppm	ASTM D5185m >21	0	---	---
Nickel	ppm	ASTM D5185m >21	0	---	---
Titanium	ppm	ASTM D5185m >21	0	---	---
Silver	ppm	ASTM D5185m >21	0	---	---
Aluminum	ppm	ASTM D5185m >21	0	---	---
Lead	ppm	ASTM D5185m >21	0	---	---
Copper	ppm	ASTM D5185m >21	<1	---	---
Tin	ppm	ASTM D5185m >21	0	---	---
Antimony	ppm	ASTM D5185m >21	0	---	---
Vanadium	ppm	ASTM D5185m	0	---	---
Beryllium	ppm	ASTM D5185m	0	---	---
Cadmium	ppm	ASTM D5185m	0	---	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<1	---	---
Barium	ppm	ASTM D5185m	3	---	---
Molybdenum	ppm	ASTM D5185m	0	---	---
Manganese	ppm	ASTM D5185m	0	---	---
Magnesium	ppm	ASTM D5185m	<1	---	---
Calcium	ppm	ASTM D5185m	7	---	---
Phosphorus	ppm	ASTM D5185m	3	---	---
Zinc	ppm	ASTM D5185m	1	---	---
Sulfur	ppm	ASTM D5185m	3788	---	---
Lithium	ppm	ASTM D5185m	<1	---	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	2	---	---
Sodium	ppm	ASTM D5185m >21	2	---	---
Potassium	ppm	ASTM D5185m >20	<1	---	---
Water	%	ASTM D6304 >0.0601	0.003	---	---
ppm Water	ppm	ASTM D6304 >601	40	---	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.19	---	---

FLUID PROPERTIES

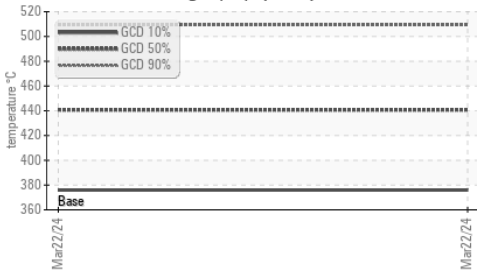
	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	▲ 45.8	---	---
COC Flash Point	°C	ASTM D92	216	---	---

SEDIMENT

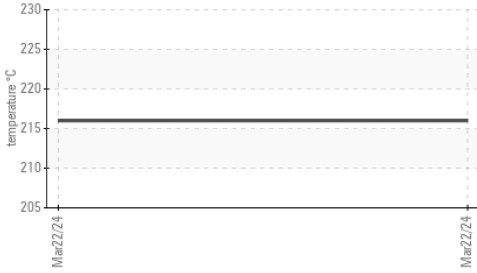
	method	limit/base	current	history1	history2
Pentane Insolubles	%	*ASTM D893	0.103	---	---

OIL ANALYSIS REPORT

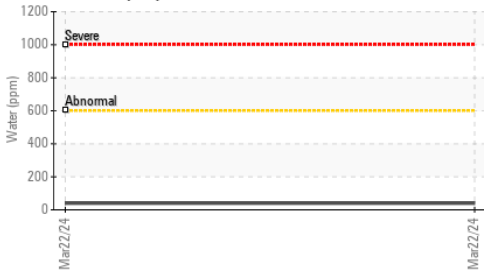
Gas Chromatography (GCD)



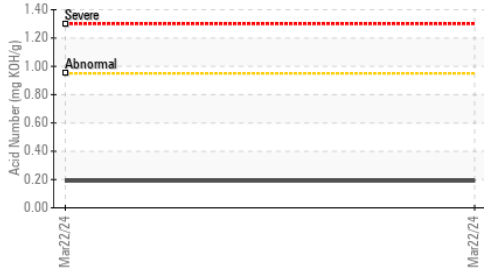
Flash Point (°C)



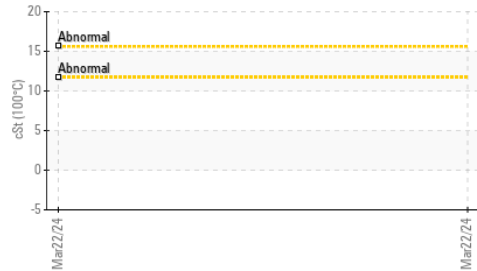
Water (KF)



Acid Number



Viscosity @ 100°C

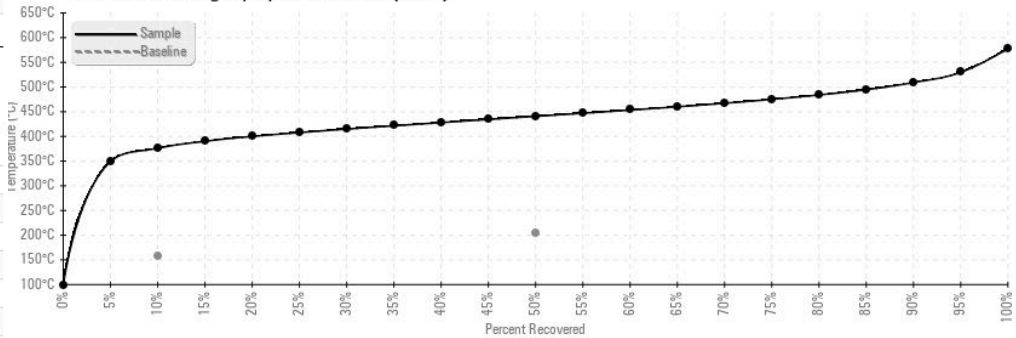


SIMULATED DISTILLATION (GCD)	method	limit/base	current	history1	history2
(GCD) % < 335°C	°C	*ASTM D2887	3.23	---	---
(GCD) Initial Boiling Point	°C	*ASTM D2887	98.6	---	---
(GCD) 5% Distillation Point	°C	*ASTM D2887	349.3	---	---
(GCD) 10% Distillation Point	°C	*ASTM D2887	376.0	---	---
(GCD) 20% Distillation Point	°C	*ASTM D2887	400.0	---	---
(GCD) 30% Distillation Point	°C	*ASTM D2887	414.9	---	---
(GCD) 40% Distillation Point	°C	*ASTM D2887	428.0	---	---
(GCD) 50% Distillation Point	°C	*ASTM D2887	440.7	---	---
(GCD) 60% Distillation Point	°C	*ASTM D2887	453.4	---	---
(GCD) 70% Distillation Point	°C	*ASTM D2887	467.2	---	---
(GCD) 80% Distillation Point	°C	*ASTM D2887	484.0	---	---
(GCD) 90% Distillation Point	°C	*ASTM D2887	509.2	---	---
(GCD) FB% Distillation Point	°C	*ASTM D2887	577.9	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image

GRAPHS

Gas Chromatography Distillation (GCD)



Viscosity @ 40°C



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : TO10003408

Lab Number : 06193489

Unique Number : 11050241

Test Package : IND 2 (Additional Tests: COC Flash, GCD, KF, KV100, PntInsol, VI)

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)

Received : 28 May 2024

Tested : 17 Jun 2024

Diagnosed : 17 Jun 2024 - Doug Bogart

ERGON - TULA

CALLE ORIENTE NO.4 LOTE 60 PARQUE, INDUSTRIAL

ATITALAQUIA, ZZ

MX 42970

Contact: GABRIEL CRUZ

gabriel.cruz@ergon.com

T:

F: