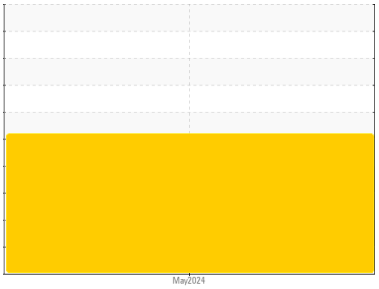
PROBLEM SUMMARY

Sample Rating Trend

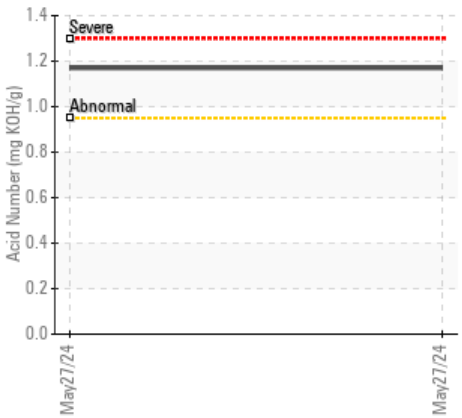


DEGRADATION

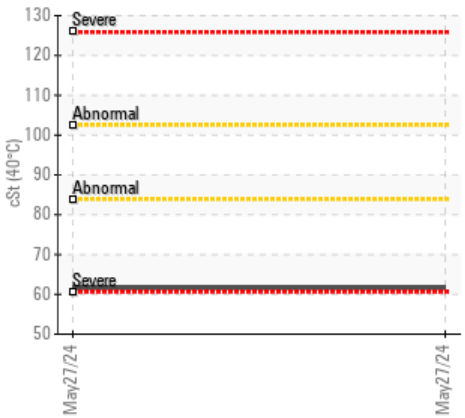
Machine Id
SALINA CRUZ OAXACA
Component
Heat Transfer Fluid
Fluid
{not provided} (--- GAL)

COMPONENT CONDITION SUMMARY

▲ Acid Number



▲ Viscosity @ 40°C



▲

RECOMMENDATION

We recommend that you vent the expansion tank to remove low boilers which assists in restoring the flash point of the fluid. We recommend an early resample to monitor this condition. All tests and evaluation performed at WearCheck Canada.

PROBLEMATIC TEST RESULTS

Sample Status				**SEVERE**	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045		▲ **1.17**	---	---
Visc @ 40°C	cSt	ASTM D445		▲ **61.6**	---	---
Pentane Insolubles	%	*ASTM D893		▲ **1.00**	---	---
(GCD) Initial Boiling Point	°C	*ASTM D2887	122	▲ **98.1**	---	---

Customer Id: ERGSALMX
Sample No.: TO10003407
Lab Number: 06193481
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Doug Bogart +1 (800)237-1369 x4016
dougb@wearcheckusa.com

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

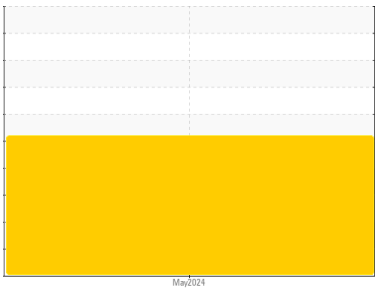
RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Resample	---	---	?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS

OIL ANALYSIS REPORT

Sample Rating Trend



DEGRADATION

Machine Id
SALINA CRUZ OAXACA
Component
Heat Transfer Fluid
Fluid
{not provided} (--- GAL)

DIAGNOSIS

▲ Recommendation
We recommend that you vent the expansion tank to remove low boilers which assists in restoring the flash point of the fluid. We recommend an early resample to monitor this condition. All tests and evaluation performed at WearCheck Canada.

▲ Contamination
Pentane Insolubles levels are abnormally high.

▲ Fluid Condition
Acid Number (AN) is severely high. (GCD) Initial Boiling Point is abnormal. Visc @ 40°C is abnormally low.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**TO10003407**	---	---
Sample Date		Client Info		**27 May 2024**	---	---
Machine Age	hrs	Client Info		**0**	---	---
Oil Age	hrs	Client Info		**0**	---	---
Oil Changed		Client Info		**N/A**	---	---
Sample Status				**SEVERE**	---	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	**12**	---	---
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	**0**	---	---
Tin	ppm	ASTM D5185m	>21	**0**	---	---
Antimony	ppm	ASTM D5185m	>21	**0**	---	---
Vanadium	ppm	ASTM D5185m		**<1**	---	---
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		**0**	---	---
Molybdenum	ppm	ASTM D5185m		**0**	---	---
Manganese	ppm	ASTM D5185m		**<1**	---	---
Magnesium	ppm	ASTM D5185m		**<1**	---	---
Calcium	ppm	ASTM D5185m		**2**	---	---
Phosphorus	ppm	ASTM D5185m		**2**	---	---
Zinc	ppm	ASTM D5185m		**<1**	---	---
Sulfur	ppm	ASTM D5185m		**6944**	---	---
Lithium	ppm	ASTM D5185m		**<1**	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**0**	---	---
Sodium	ppm	ASTM D5185m	>21	**6**	---	---
Potassium	ppm	ASTM D5185m	>20	**<1**	---	---
Water	%	ASTM D6304	>0.0601	**0.005**	---	---
ppm Water	ppm	ASTM D6304	>601	**56**	---	---

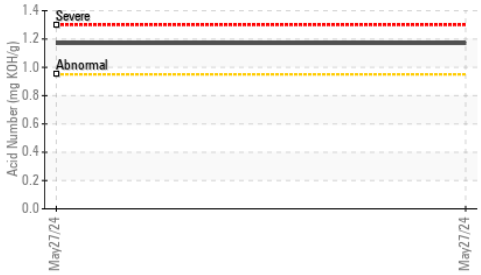
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		▲ **1.17**	---	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		▲ **61.6**	---	---
COC Flash Point	°C	ASTM D92		**220**	---	---

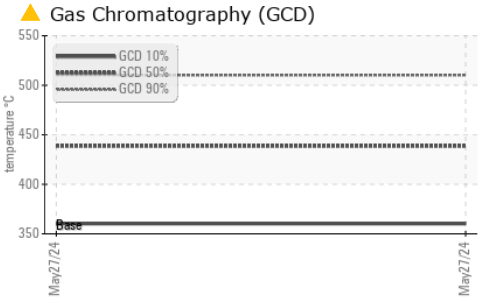
SEDIMENT		method	limit/base	current	history1	history2
Pentane Insolubles	%	*ASTM D893		▲ **1.00**	---	---

OIL ANALYSIS REPORT

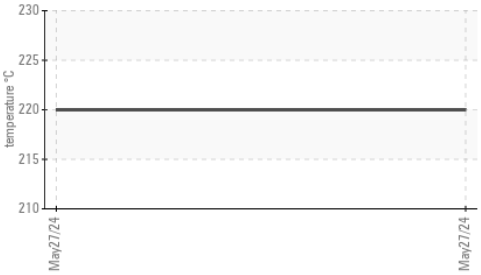
Acid Number



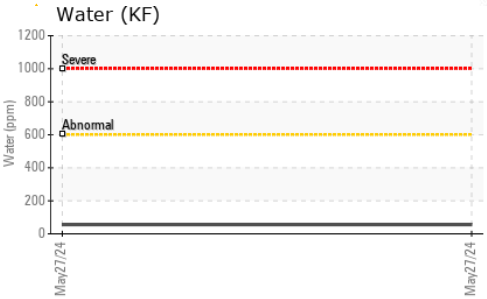
Gas Chromatography (GCD)



Flash Point (°C)



Water (KF)



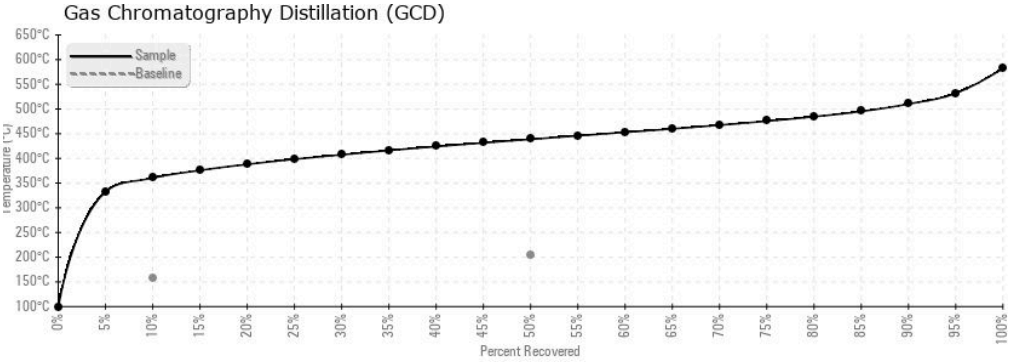
Viscosity @ 100°C

SIMULATED DISTILLATON (GCD)		method	limit/base	current	history1	history2
(GCD) % < 335°C	°C	*ASTM D2887		**4.84**	---	---
(GCD) Initial Boiling Point	°C	*ASTM D2887	122	▲ **98.1**	---	---
(GCD) 5% Distillation Point	°C	*ASTM D2887		**332.4**	---	---
(GCD) 10% Distillation Point	°C	*ASTM D2887	157	**360.2**	---	---
(GCD) 20% Distillation Point	°C	*ASTM D2887		**388.0**	---	---
(GCD) 30% Distillation Point	°C	*ASTM D2887		**407.4**	---	---
(GCD) 40% Distillation Point	°C	*ASTM D2887		**424.0**	---	---
(GCD) 50% Distillation Point	°C	*ASTM D2887	204	**438.7**	---	---
(GCD) 60% Distillation Point	°C	*ASTM D2887		**452.9**	---	---
(GCD) 70% Distillation Point	°C	*ASTM D2887		**467.4**	---	---
(GCD) 80% Distillation Point	°C	*ASTM D2887		**484.5**	---	---
(GCD) 90% Distillation Point	°C	*ASTM D2887		**510.2**	---	---
(GCD) FBP% Distillation Point	°C	*ASTM D2887	322	**582.0**	---	---

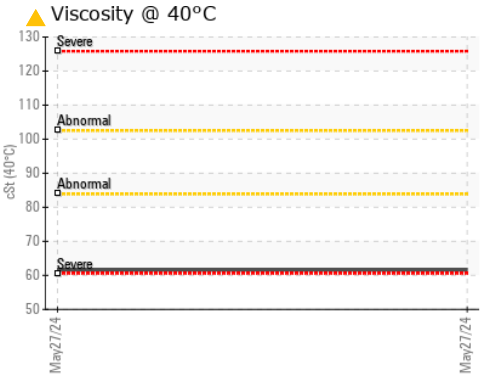
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			*no image*	*no image*	*no image*
Bottom			*no image*	*no image*	*no image*

GRAPHS

Gas Chromatography Distillation (GCD)



Viscosity @ 40°C



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO10003407
Lab Number : 06193481
Unique Number : 11050233
Test Package : IND 2 (Additional Tests: COC Flash, GCD, KF, KV100, PntInsol, VI)

Received : 28 May 2024
Tested : 17 Jun 2024
Diagnosed : 17 Jun 2024 - Doug Bogart

ERGON - SALINA CRUZ
LOTE 12 MANZANA 2-A PARQUE INDUSTRI, COMPLEMENTARIO FONDEPOR
SALINA CRUZ, ZZ
MX 70610
Contact: ANGEL OLGUIN
angel.olguin@ergon.com
T:
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)