

OIL ANALYSIS REPORT

Sample Rating Trend



SEDIMENT



Machine Id
4000 4000
Component
Heat Transfer Fluid
Fluid
{not provided} (1 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.

Contamination

Pentane Insolubles levels are abnormally high.

Fluid Condition

Visc @ 40°C is abnormally low.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			TO10003410	---	---
Sample Date	Client Info			12 Mar 2024	---	---
Machine Age	yrs	Client Info		20	---	---
Oil Age	yrs	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	<1	---	---
Chromium	ppm	ASTM D5185m	>21	0	---	---
Nickel	ppm	ASTM D5185m	>21	1	---	---
Titanium	ppm	ASTM D5185m	>21	0	---	---
Silver	ppm	ASTM D5185m	>21	0	---	---
Aluminum	ppm	ASTM D5185m	>21	0	---	---
Lead	ppm	ASTM D5185m	>21	<1	---	---
Copper	ppm	ASTM D5185m	>21	0	---	---
Tin	ppm	ASTM D5185m	>21	0	---	---
Antimony	ppm	ASTM D5185m	>21	0	---	---
Vanadium	ppm	ASTM D5185m		6	---	---
Beryllium	ppm	ASTM D5185m		0	---	---
Cadmium	ppm	ASTM D5185m		0	---	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	---	---
Barium	ppm	ASTM D5185m		0	---	---
Molybdenum	ppm	ASTM D5185m		0	---	---
Manganese	ppm	ASTM D5185m		0	---	---
Magnesium	ppm	ASTM D5185m		<1	---	---
Calcium	ppm	ASTM D5185m		0	---	---
Phosphorus	ppm	ASTM D5185m		0	---	---
Zinc	ppm	ASTM D5185m		<1	---	---
Sulfur	ppm	ASTM D5185m		3478	---	---
Lithium	ppm	ASTM D5185m		<1	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	0	---	---
Sodium	ppm	ASTM D5185m	>21	0	---	---
Potassium	ppm	ASTM D5185m	>20	0	---	---
Water	%	ASTM D6304	>0.0601	0.003	---	---
ppm Water	ppm	ASTM D6304	>601	31	---	---

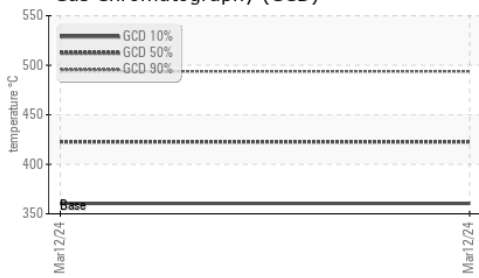
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.17	---	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		▲ 35.6	---	---
COC Flash Point	°C	ASTM D92		216	---	---

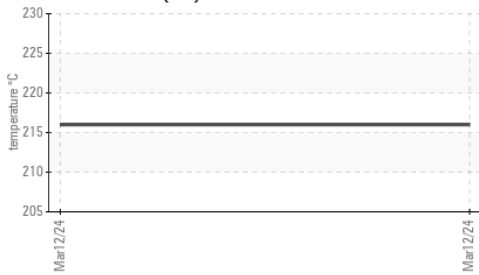
SEDIMENT		method	limit/base	current	history1	history2
Pentane Insolubles	%	*ASTM D893		▲ 0.465	---	---

OIL ANALYSIS REPORT

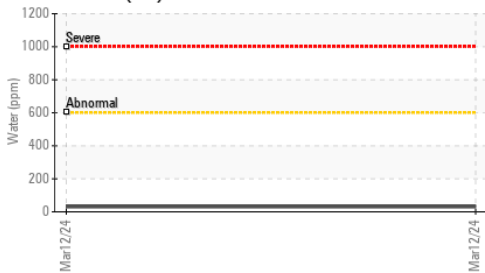
Gas Chromatography (GCD)



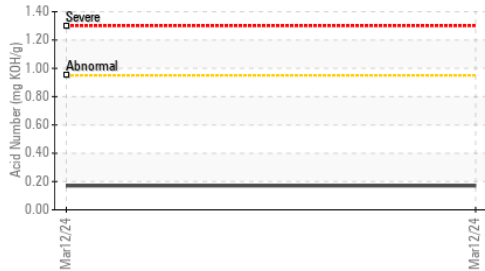
Flash Point (°C)



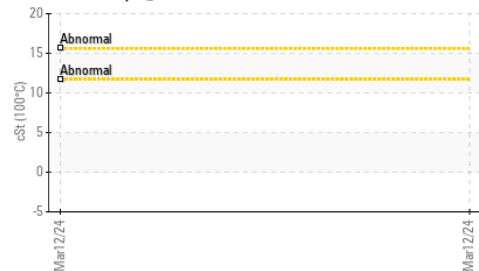
Water (KF)



Acid Number



Viscosity @ 100°C

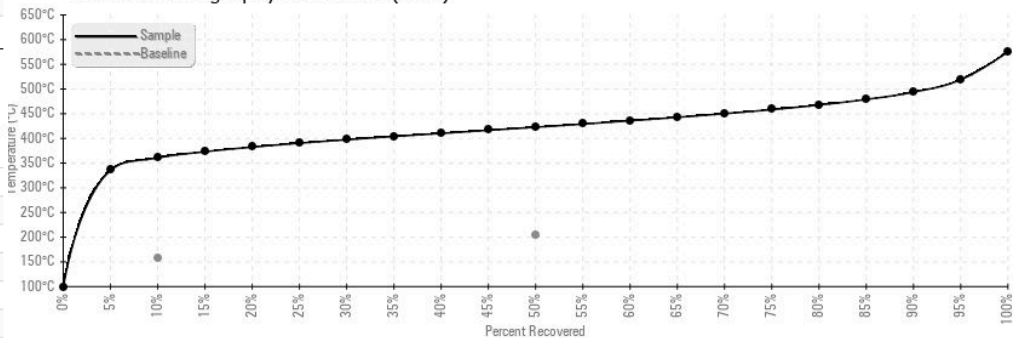


SIMULATED DISTILLATION (GCD)	method	limit/base	current	history1	history2
(GCD) % < 335°C	°C	*ASTM D2887	4.43	---	---
(GCD) Initial Boiling Point	°C	*ASTM D2887	98.3	---	---
(GCD) 5% Distillation Point	°C	*ASTM D2887	335.7	---	---
(GCD) 10% Distillation Point	°C	*ASTM D2887	360.5	---	---
(GCD) 20% Distillation Point	°C	*ASTM D2887	382.4	---	---
(GCD) 30% Distillation Point	°C	*ASTM D2887	397.4	---	---
(GCD) 40% Distillation Point	°C	*ASTM D2887	410.2	---	---
(GCD) 50% Distillation Point	°C	*ASTM D2887	422.7	---	---
(GCD) 60% Distillation Point	°C	*ASTM D2887	435.8	---	---
(GCD) 70% Distillation Point	°C	*ASTM D2887	450.2	---	---
(GCD) 80% Distillation Point	°C	*ASTM D2887	467.7	---	---
(GCD) 90% Distillation Point	°C	*ASTM D2887	493.8	---	---
(GCD) FB% Distillation Point	°C	*ASTM D2887	575.5	---	---

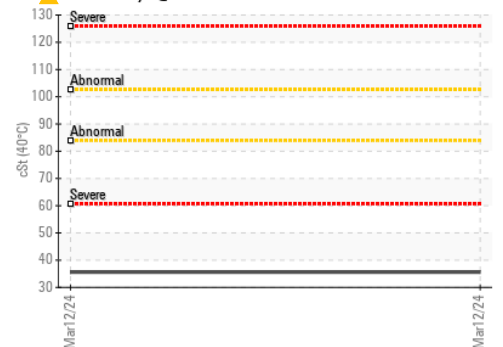
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			no image	no image	no image
Bottom			no image	no image	no image

GRAPHS

Gas Chromatography Distillation (GCD)



Viscosity @ 40°C



Certificate L2367

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

Sample No. : TO10003410

Lab Number : **06193487**

Unique Number : 11050239

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 - ALTAMIRA

LAGUNA MACHONA LOTE 5 MANZANA 2, PARQUE DE LA PEQUENA Y MEDI

ALTAMIRA, ZZ

MX 89600

Contact: NORMA ROJAS

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