



OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY

Area

[Comp 1 Bottom]

Machine Id

N/A Citgo Hydurance AW 32 Comp 1

Component

Bottom Fluid

Fluid

{not provided} (2800 GAL)

DIAGNOSIS

Recommendation

We advise that you filter this fluid before use. (Customer Sample Comment: Please rush same day analysis)

Contamination

There is a high amount of particulates present in the fluid.

Fluid Condition

Viscosity of sample indicates oil is within ISO 68 range, advise investigate. Confirm oil type.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	KFS0005061	---	---
Sample Date	Client Info	19 Apr 2024	---	---
Machine Age	hrs Client Info	0	---	---
Oil Age	hrs Client Info	0	---	---
Oil Changed	Client Info	N/A	---	---
Sample Status		ABNORMAL	---	---

CONTAMINATION

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

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m	0	---	---
Chromium	ppm ASTM D5185m	0	---	---
Nickel	ppm ASTM D5185m	0	---	---
Titanium	ppm ASTM D5185m	<1	---	---
Silver	ppm ASTM D5185m	0	---	---
Aluminum	ppm ASTM D5185m	0	---	---
Lead	ppm ASTM D5185m	0	---	---
Copper	ppm ASTM D5185m	0	---	---
Tin	ppm ASTM D5185m	0	---	---
Vanadium	ppm ASTM D5185m	<1	---	---
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	2	---	---
Calcium	ppm ASTM D5185m	25	---	---
Phosphorus	ppm ASTM D5185m	171	---	---
Zinc	ppm ASTM D5185m	246	---	---
Sulfur	ppm ASTM D5185m	809	---	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m	<1	---	---
Sodium	ppm ASTM D5185m	0	---	---
Potassium	ppm ASTM D5185m >20	<1	---	---

FLUID CLEANLINESS

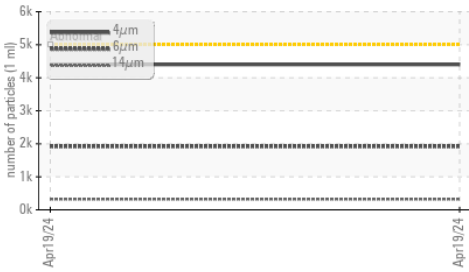
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	4399	---	---
Particles >6µm	ASTM D7647 >1300	1922	---	---
Particles >14µm	ASTM D7647 >160	322	---	---
Particles >21µm	ASTM D7647 >40	94	---	---
Particles >38µm	ASTM D7647 >10	2	---	---
Particles >71µm	ASTM D7647 >3	0	---	---
Oil Cleanliness	ISO 4406 (c) >19/17/14	19/18/16	---	---

FLUID DEGRADATION

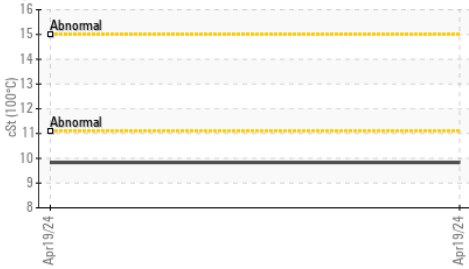
method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D8045	0.29	---	---

OIL ANALYSIS REPORT

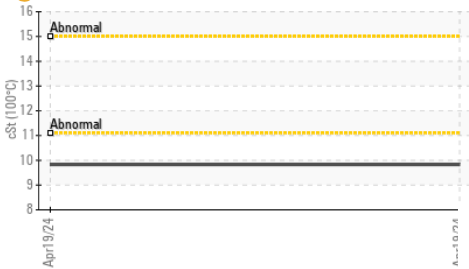
▲ Particle Trend



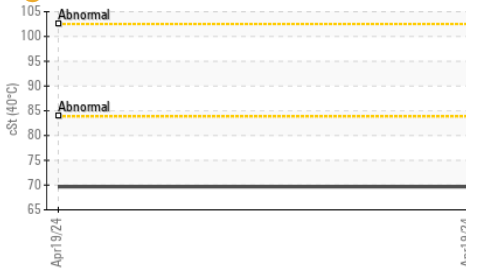
● Viscosity @ 100°C



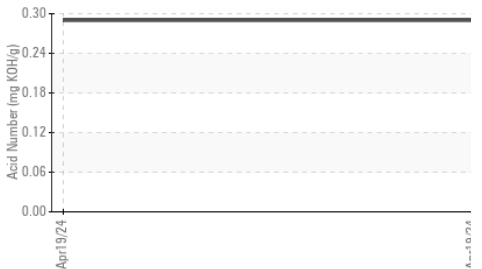
● Viscosity @ 100°C



● Viscosity @ 40°C



Acid Number



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	NEG	---	---
Free Water	scalar	*Visual	NEG	---	---

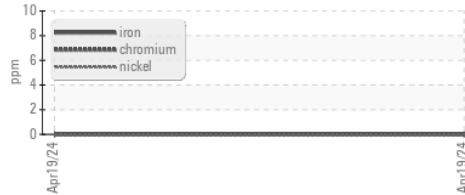
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	69.66	---	---
Visc @ 100°C	cSt	ASTM D445	9.83	---	---
Viscosity Index (VI)	Scale	ASTM D2270	122	---	---

SAMPLE IMAGES

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

GRAPHS

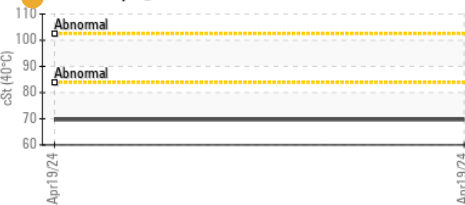
Ferrous Alloys



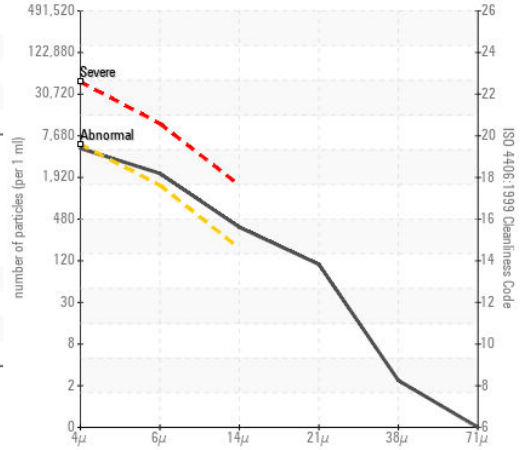
Non-ferrous Metals



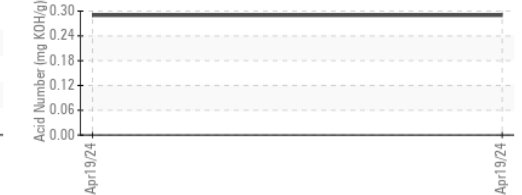
● Viscosity @ 40°C



▲ Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KFS0005061 **Received** : 22 Apr 2024
Lab Number : 06156567 **Tested** : 22 Apr 2024
Unique Number : 10991990 **Diagnosed** : 22 Apr 2024 - Doug Bogart
Test Package : IND 2 (Additional Tests: KV100, PrtCount, 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)

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