



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Machine Id
SUPREME 12TM323008
Component
Hydrostatic
Fluid
CHEVRON HYDRAULIC AW ISO 68 (55 GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0669861	---	---
Sample Date		Client Info		25 Dec 2023	---	---
Machine Age	hrs	Client Info		100	---	---
Oil Age	hrs	Client Info		100	---	---
Filter Age	hrs	Client Info		100	---	---
Oil Changed		Client Info		Not Changd	---	---
Filter Changed		Client Info		Not Changd	---	---
Sample Status				ATTENTION	---	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	1	---	---
Chromium	ppm	ASTM D5185m	>10	<1	---	---
Nickel	ppm	ASTM D5185m		0	---	---
Titanium	ppm	ASTM D5185m		<1	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>50	2	---	---
Lead	ppm	ASTM D5185m	>50	0	---	---
Copper	ppm	ASTM D5185m	>200	2	---	---
Tin	ppm	ASTM D5185m	>10	0	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

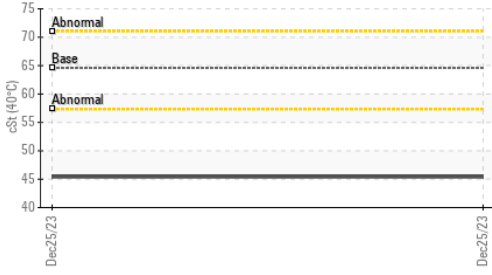
Silicon	ppm	ASTM D5185m	>50	1	---	---
Potassium	ppm	ASTM D5185m	>20	2	---	---
Water		WC Method	>0.1	NEG	---	---
Particles >4µm		ASTM D7647	>10000	4045	---	---
Particles >6µm		ASTM D7647	>2500	1121	---	---
Particles >14µm		ASTM D7647	>320	131	---	---
Particles >21µm		ASTM D7647	>80	44	---	---
Particles >38µm		ASTM D7647	>20	3	---	---
Particles >71µm		ASTM D7647	>4	0	---	---
Oil Cleanliness		ISO 4406 (c)	>20/18/15	19/17/14	---	---
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	>0.1	NEG	---	---

FLUID CONDITION

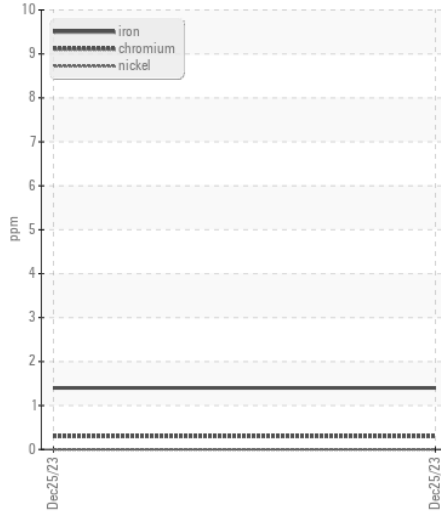
Viscosity of sample indicates oil is within ISO 46 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

Sodium	ppm	ASTM D5185m		0	---	---
Boron	ppm	ASTM D5185m		0	---	---
Barium	ppm	ASTM D5185m		0	---	---
Molybdenum	ppm	ASTM D5185m		<1	---	---
Manganese	ppm	ASTM D5185m		0	---	---
Magnesium	ppm	ASTM D5185m		5	---	---
Calcium	ppm	ASTM D5185m		50	---	---
Phosphorus	ppm	ASTM D5185m		376	---	---
Zinc	ppm	ASTM D5185m		432	---	---
Sulfur	ppm	ASTM D5185m		851	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045		0.36	---	---
Visc @ 40°C	cSt	ASTM D445	64.6	▲ 45.41	---	---

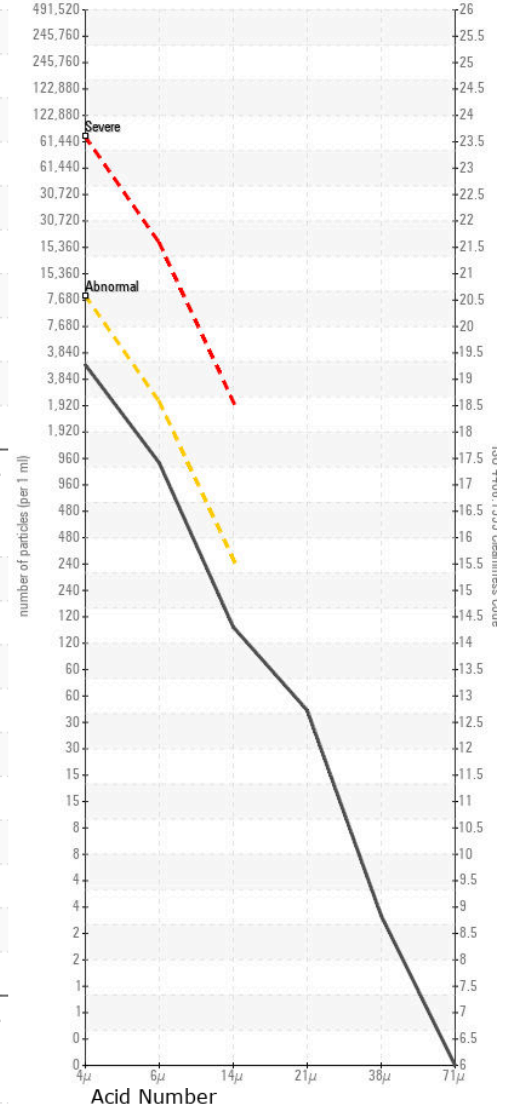
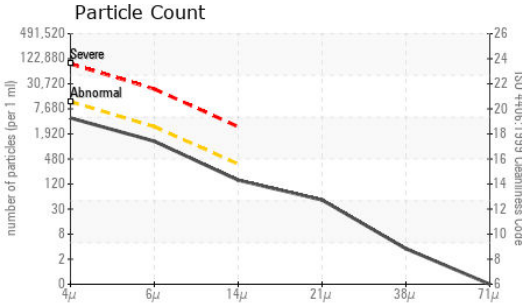
▲ Viscosity @ 40°C



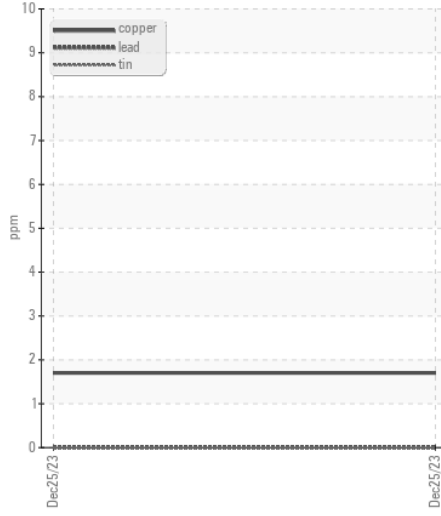
Ferrous Alloys



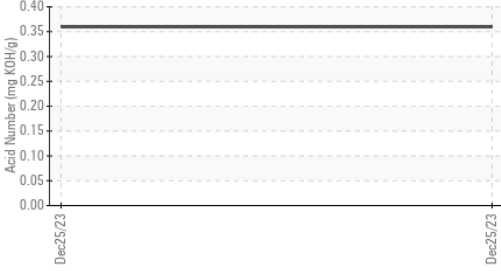
Particle Count



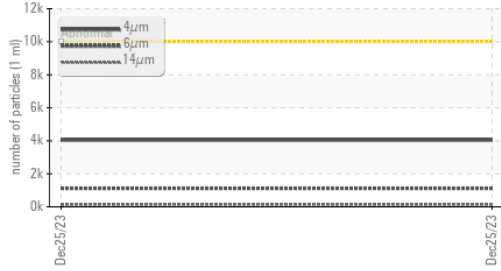
Non-ferrous Metals



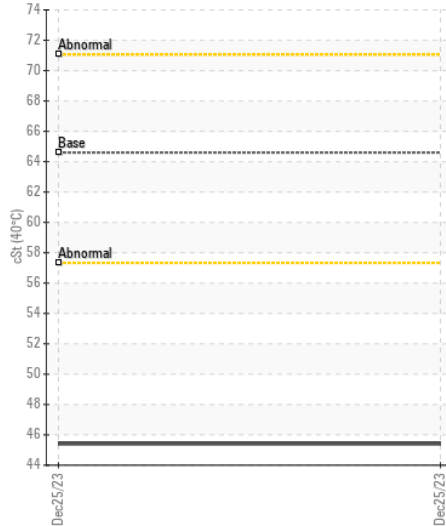
Acid Number



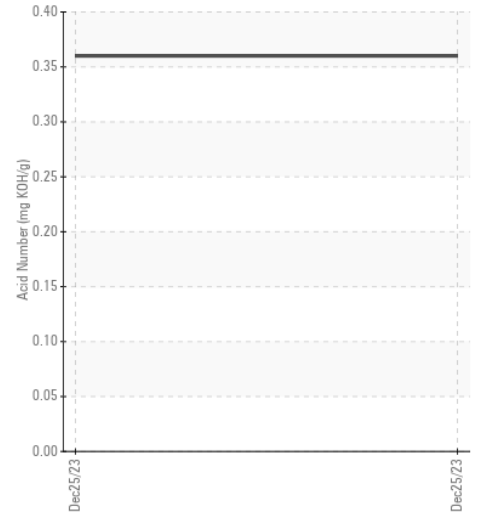
Particle Trend



▲ Viscosity @ 40°C



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : WC0669861 Recieved : 11 Jan 2024
 Lab Number : 06058724 Diagnosed : 16 Jan 2024
 Unique Number : 10830106 Diagnostician : Jonathan Hester
 Test Package : MOB 2 (Additional Tests: PrtCount)

TOM HELT - HELT DIVERSIFIED LLC
 5846 BALTES RD
 WAUNAKEE, WI
 US 53597
 Contact: SERVICE MANAGER

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)

T: (608)334-3781

F: