



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
SUPREME 12TM323008

Component
Hydrostatic

Fluid
CHEVRON HYDRAULIC OIL AW ISO 46 (55 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0669853	WC0669852	WC0669861
Sample Date		Client Info		05 May 2024	06 Feb 2024	25 Dec 2023
Machine Age	hrs	Client Info		323	407	100
Oil Age	hrs	Client Info		0	407	100
Filter Age	hrs	Client Info		0	407	100
Oil Changed		Client Info		Not Chngd	Not Chngd	Not Chngd
Filter Changed		Client Info		Not Chngd	Not Chngd	Not Chngd
Sample Status				NORMAL	ATTENTION	ATTENTION

WEAR

All component wear rates are normal.

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

CONTAMINATION

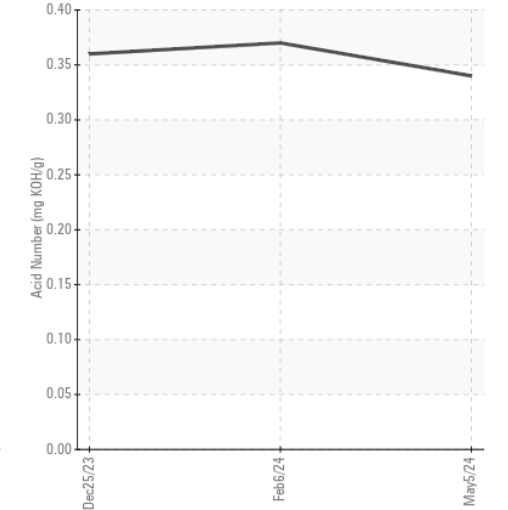
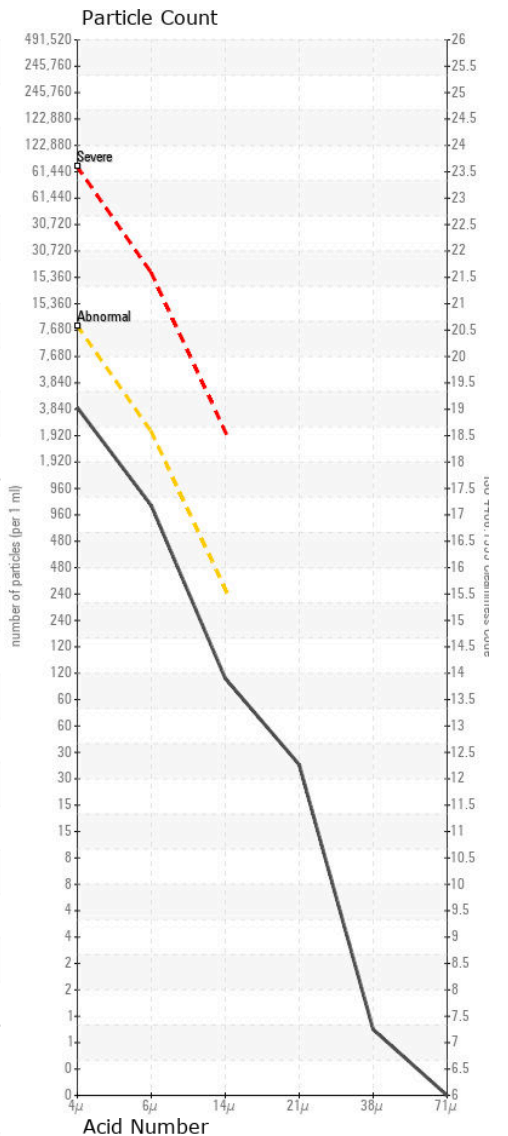
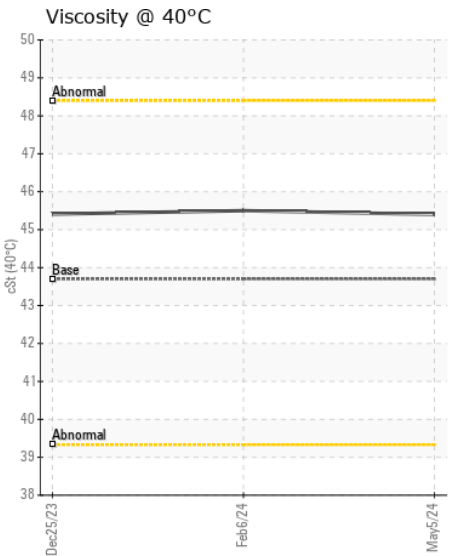
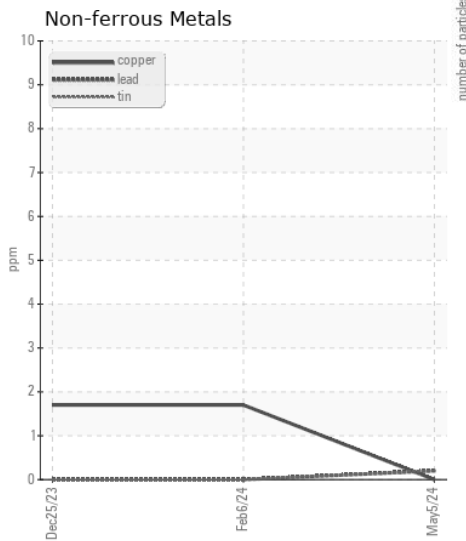
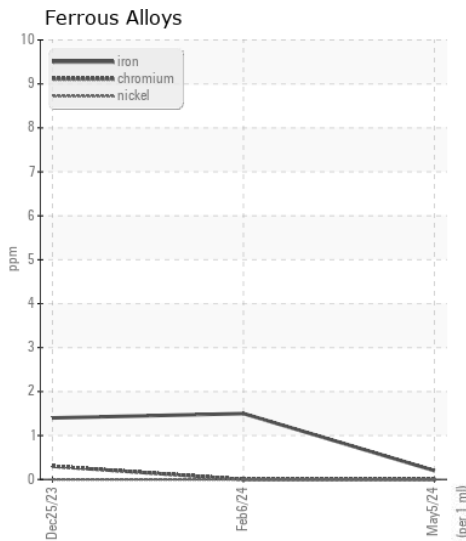
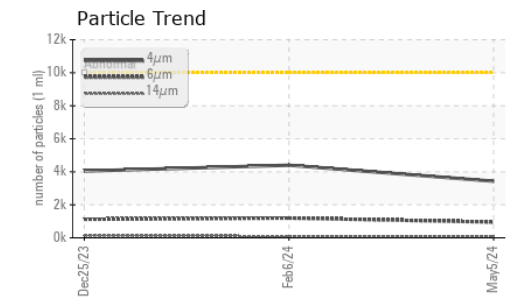
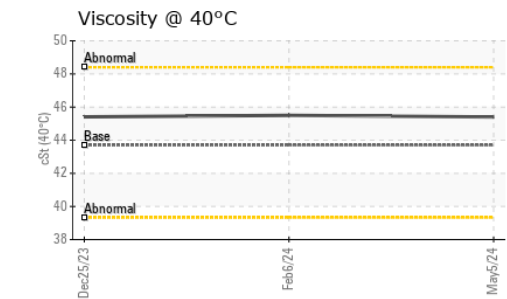
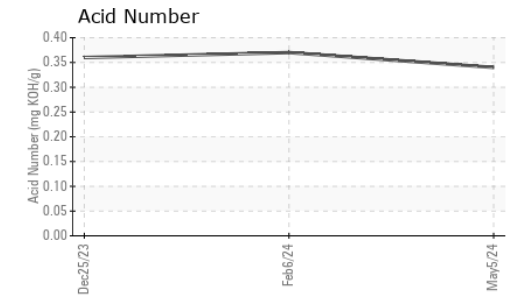
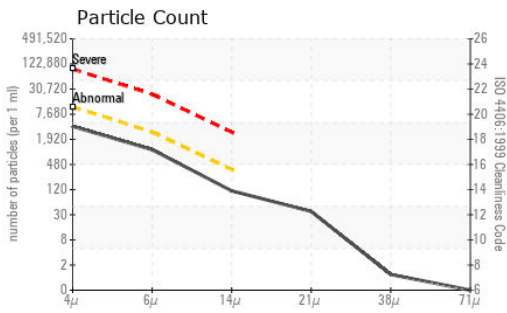
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	1	<1	1
Potassium	ppm	ASTM D5185m	>20	1	0	2
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>10000	3428	4398	4045
Particles >6µm		ASTM D7647	>2500	951	1196	1121
Particles >14µm		ASTM D7647	>320	99	98	131
Particles >21µm		ASTM D7647	>80	32	22	44
Particles >38µm		ASTM D7647	>20	1	1	3
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	19/17/14	19/17/14	19/17/14
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		0	1	0
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	<1
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		4	<1	5
Calcium	ppm	ASTM D5185m		48	38	50
Phosphorus	ppm	ASTM D5185m		349	307	376
Zinc	ppm	ASTM D5185m		437	376	432
Sulfur	ppm	ASTM D5185m		941	718	851
Acid Number (AN)	mg KOH/g	ASTM D8045		0.34	0.37	0.36
Visc @ 40°C	cSt	ASTM D445	43.7	45.4	45.5	45.41



Certificate L2367

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

Sample No. : WC0669853

Lab Number : 06174583

Unique Number : 11020636

Test Package : MOB 2 (Additional Tests: PrtCount)

Received : 09 May 2024

Tested : 10 May 2024

Diagnosed : 13 May 2024 - Don Baldrige

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: