



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOSEPH HAMILTON (S/N 7-474692-1)
Component
Port Reduction Gear
Fluid
CHEVRON GEAR COMPOUND EP 220 (90 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		MW0019855	MW0019593	MW0019594
Sample Date		Client Info		01 Jan 2024	01 Feb 2023	01 Dec 2022
Machine Age	hrs	Client Info		69039	65263	63324
Oil Age	hrs	Client Info		69039	65263	63324
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Chngd	Not Chngd	N/A
Filter Changed		Client Info		Not Chngd	None	Not Chngd
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>150	60	45	45
Chromium	ppm	ASTM D5185m	>10	0	<1	0
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	0	<1
Lead	ppm	ASTM D5185m	>100	5	4	4
Copper	ppm	ASTM D5185m	>50	13	13	13
Tin	ppm	ASTM D5185m	>10	0	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

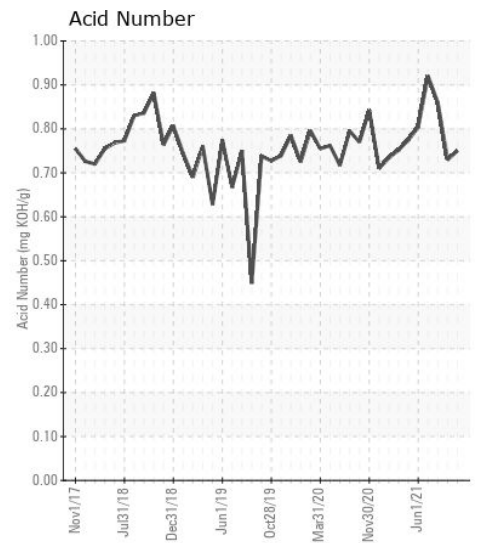
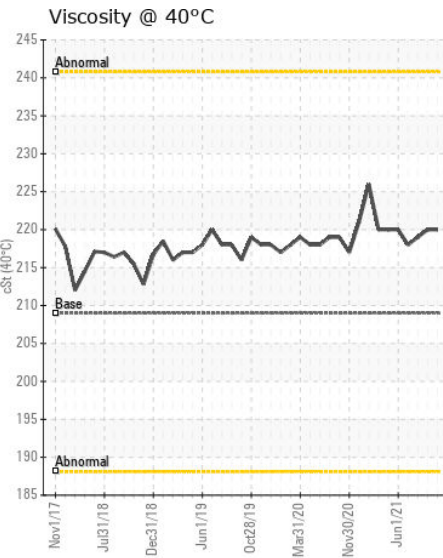
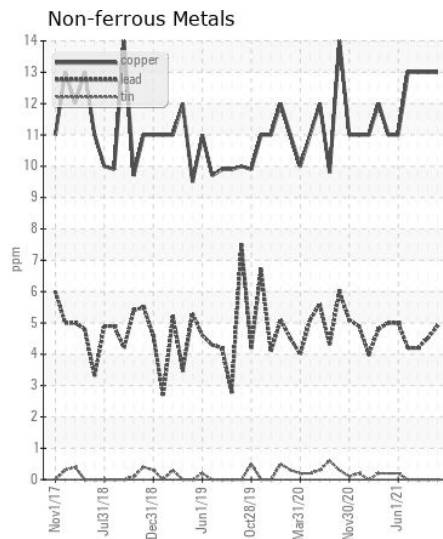
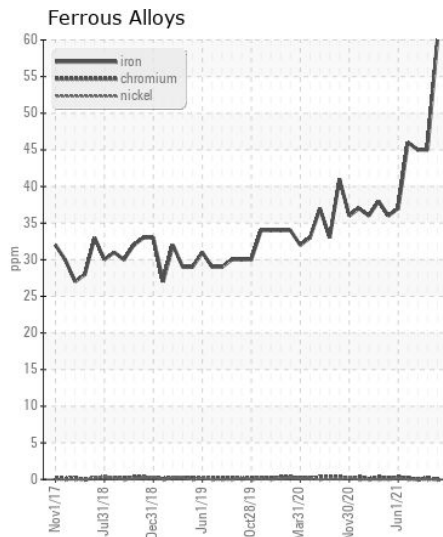
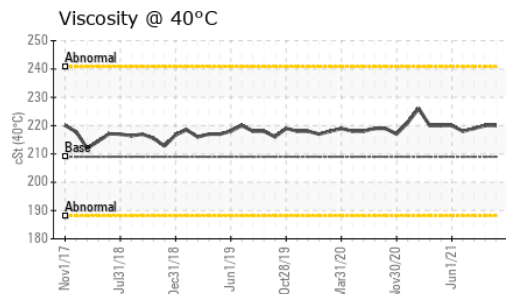
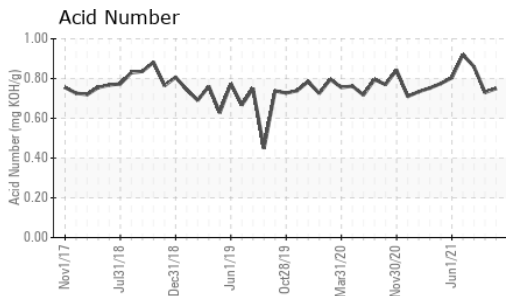
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	2	2	1
Potassium	ppm	ASTM D5185m	>20	2	0	0
Water		WC Method	>0.1	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	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		1	5	4
Boron	ppm	ASTM D5185m		5	4	0
Barium	ppm	ASTM D5185m		0	3	3
Molybdenum	ppm	ASTM D5185m		5	<1	1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		4	6	4
Calcium	ppm	ASTM D5185m		39	35	36
Phosphorus	ppm	ASTM D5185m		296	246	256
Zinc	ppm	ASTM D5185m		8	17	28
Sulfur	ppm	ASTM D5185m		7160	7008	7290
Acid Number (AN)	mg KOH/g	ASTM D8045		0.75	0.73	0.86
Visc @ 40°C	cSt	ASTM D445	209	220	220	219



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : MW0019855 **Received** : 10 Jan 2024
Lab Number : 06057432 **Diagnosed** : 11 Jan 2024
Unique Number : 10823381 **Diagnostician** : Wes Davis
Test Package : MAR 2

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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