



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
JAMES L HAMILTON
Machine Id
[JAMES L HAMILTON] 004 572403-4
Component
Port Reduction Gear
Fluid
CHEVRON MEROPA 320 (215 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		MW0041847	MW0041854	MW0053829
Sample Date		Client Info		01 Dec 2023	23 Oct 2023	02 Oct 2023
Machine Age	hrs	Client Info		58862	57856	57424
Oil Age	hrs	Client Info		58862	57856	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Not Changd	N/A
Filter Changed		Client Info		N/A	None	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>150	58	48	53
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m	>10	<1	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	2	1
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m	>50	8	6	8
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

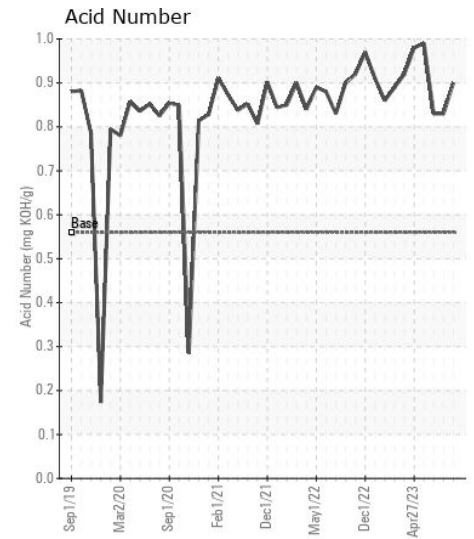
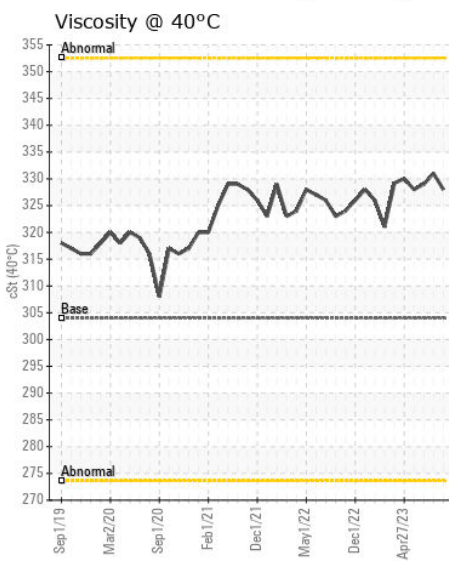
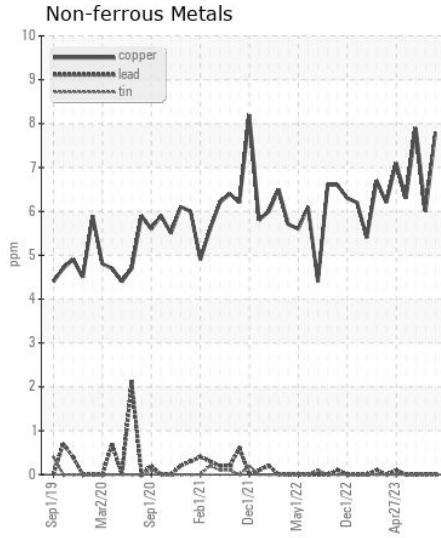
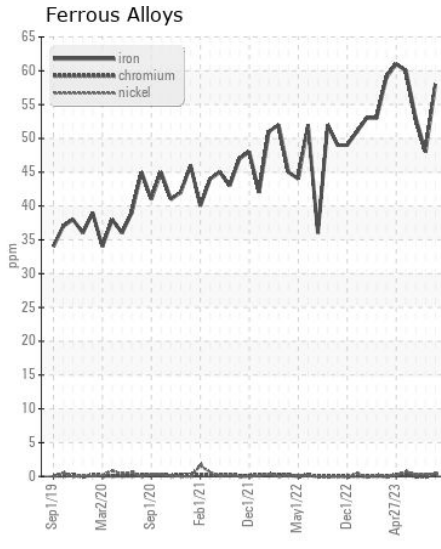
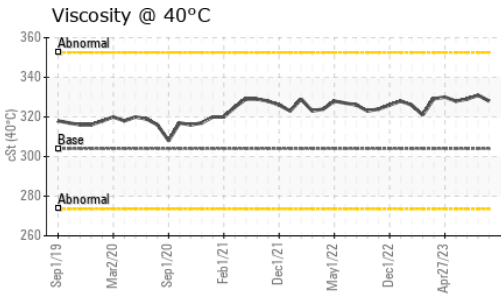
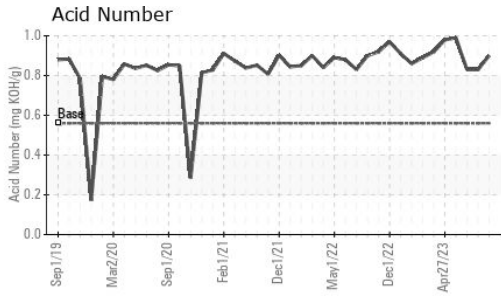
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	1	<1	<1
Potassium	ppm	ASTM D5185m	>20	2	0	1
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		7	9	3
Boron	ppm	ASTM D5185m	20	4	3	4
Barium	ppm	ASTM D5185m		0	0	6
Molybdenum	ppm	ASTM D5185m	0	2	0	2
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		1	0	2
Calcium	ppm	ASTM D5185m	25	19	20	24
Phosphorus	ppm	ASTM D5185m	235	248	189	251
Zinc	ppm	ASTM D5185m		0	0	6
Sulfur	ppm	ASTM D5185m		7816	6777	8144
Acid Number (AN)	mg KOH/g	ASTM D8045	0.56	0.90	0.83	0.83
Visc @ 40°C	cSt	ASTM D445	304	328	331	329



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : MW0041847 **Recieved** : 11 Jan 2024
Lab Number : 06058815 **Diagnosed** : 12 Jan 2024
Unique Number : 10830197 **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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