



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
JOHN R OPERLE
Machine Id
[JOHN R OPERLE] 004 630998-4
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		MW0066234	MW0066011	MW0061532
Sample Date		Client Info		01 Jun 2024	03 May 2024	07 Jan 2024
Machine Age	hrs	Client Info		62319	61624	61471
Oil Age	hrs	Client Info		6778	61624	61471
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Not Changd	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>150	48	52	44
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m	>10	<1	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>25	22	25	24
Lead	ppm	ASTM D5185m	>100	<1	0	0
Copper	ppm	ASTM D5185m	>50	5	2	5
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

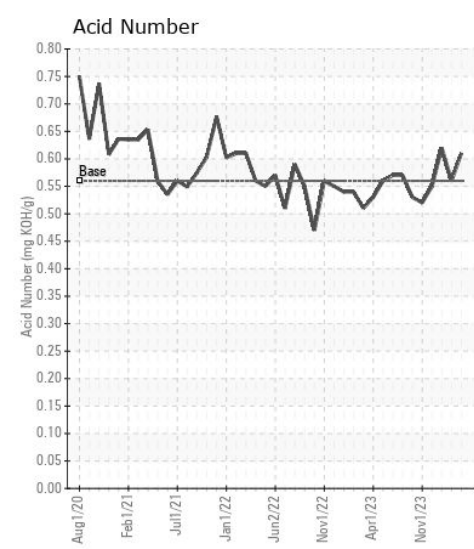
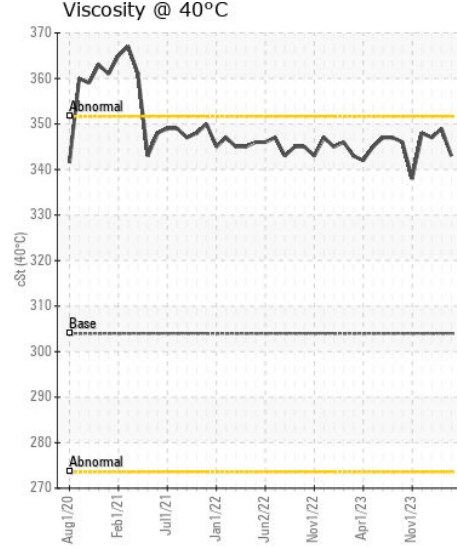
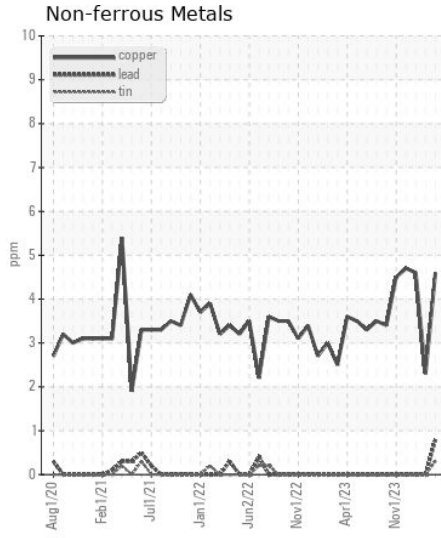
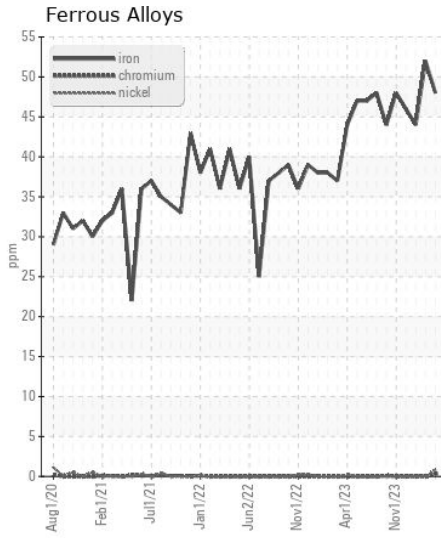
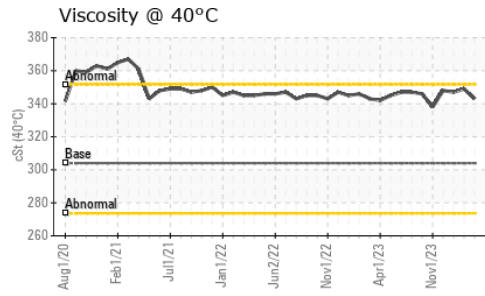
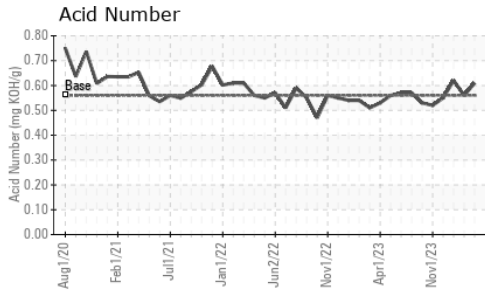
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	3	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		4	7	3
Boron	ppm	ASTM D5185m	20	3	2	0
Barium	ppm	ASTM D5185m		1	<1	0
Molybdenum	ppm	ASTM D5185m	0	39	41	39
Manganese	ppm	ASTM D5185m		1	<1	1
Magnesium	ppm	ASTM D5185m		2	0	3
Calcium	ppm	ASTM D5185m	25	42	50	50
Phosphorus	ppm	ASTM D5185m	235	239	234	200
Zinc	ppm	ASTM D5185m		8	5	11
Sulfur	ppm	ASTM D5185m		12110	14487	11140
Acid Number (AN)	mg KOH/g	ASTM D8045	0.56	0.61	0.56	0.62
Visc @ 40°C	cSt	ASTM D445	304	343	349	347



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : MW0066234
Lab Number : 06218865
Unique Number : 11097062
Test Package : MAR 2
Received : 24 Jun 2024
Tested : 25 Jun 2024
Diagnosed : 26 Jun 2024 - Sean Felton

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Certificate L2367
 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)