



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
JAMES L HAMILTON
Machine Id
[**JAMES L HAMILTON**] 007 572403-7
Component
Port Genset
Fluid
CHEVRON DELO 400 XLE 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		MW0037708	MW0041433	MW0041434
Sample Date		Client Info		01 Jun 2024	27 Apr 2024	17 Jan 2024
Machine Age	hrs	Client Info		14047	13640	12460
Oil Age	hrs	Client Info		14047	391	422
Filter Age	hrs	Client Info		407	0	0
Oil Changed		Client Info		Not Changd	N/A	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	>50	7	8	10
Chromium	ppm	ASTM D5185m	>4	<1	<1	0
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>5	<1	0	0
Aluminum	ppm	ASTM D5185m	>12	4	4	3
Lead	ppm	ASTM D5185m	>17	0	0	1
Copper	ppm	ASTM D5185m	>70	<1	<1	<1
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

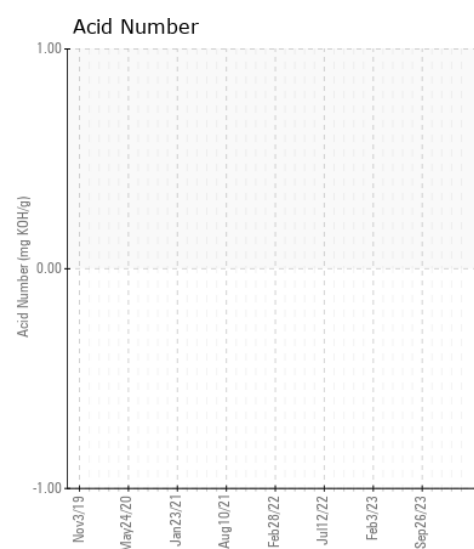
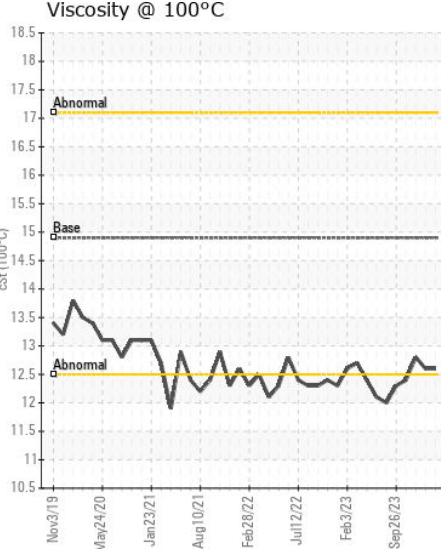
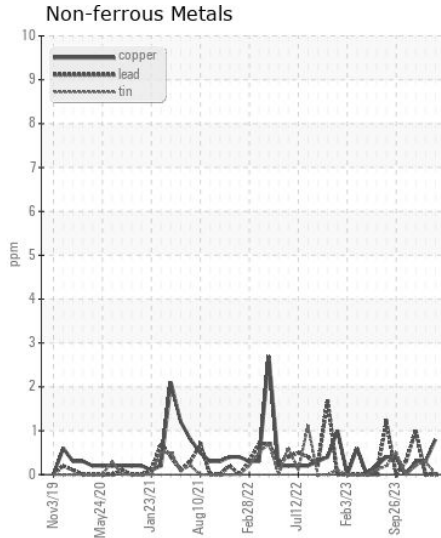
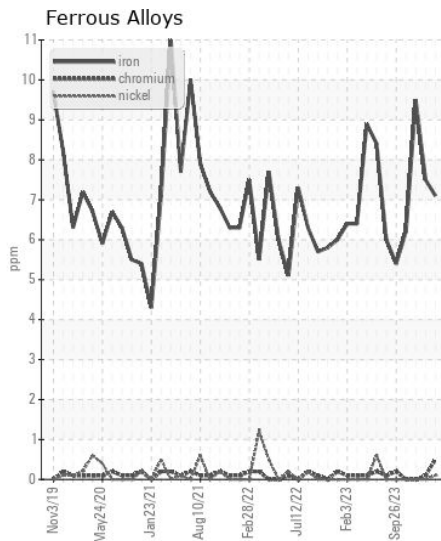
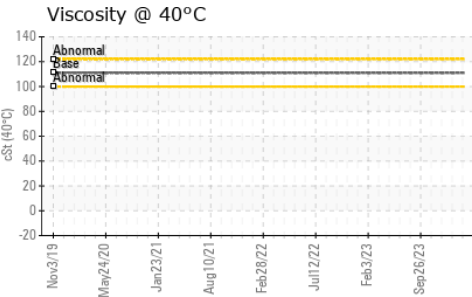
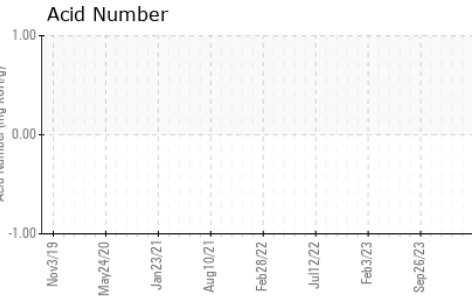
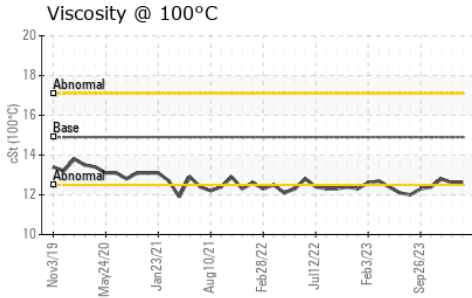
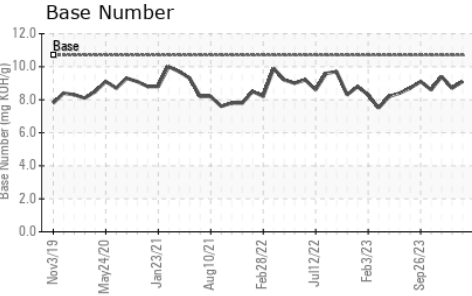
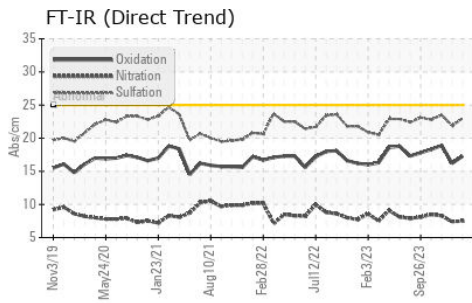
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	7	6	7
Potassium	ppm	ASTM D5185m	>20	2	0	0
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844		0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	7.5	7.4	8.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.0	21.9	23.5
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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		0	1	1
Boron	ppm	ASTM D5185m		346	429	326
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		139	137	132
Manganese	ppm	ASTM D5185m		2	1	4
Magnesium	ppm	ASTM D5185m		723	764	721
Calcium	ppm	ASTM D5185m		1700	1680	1637
Phosphorus	ppm	ASTM D5185m	760	838	768	741
Zinc	ppm	ASTM D5185m	830	943	905	888
Sulfur	ppm	ASTM D5185m	2770	2727	3040	3036
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.3	16.2	18.9
Base Number (BN)	mg KOH/g	ASTM D2896	10.7	9.1	8.7	9.4
Visc @ 100°C	cSt	ASTM D445	14.9	12.6	12.6	12.8



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : MW0037708 **Received** : 28 Jun 2024
Lab Number : 06224236 **Tested** : 01 Jul 2024
Unique Number : 11102433 **Diagnosed** : 01 Jul 2024 - Angela Borella
Test Package : MAR 2 (Additional Tests: KV40, TAN Man)

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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)