



Machine Id
GENE NEAL
Component
Port Main Engine
Fluid
CHEVRON DELO 710 LE (250 GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		MW0067110	MW0057979	MW0058005
Sample Date		Client Info		14 Feb 2024	23 Jan 2024	01 Jan 2024
Machine Age	hrs	Client Info		28271	27799	27290
Oil Age	hrs	Client Info		2546	2088	1556
Filter Age	hrs	Client Info		1136	678	146
Oil Changed		Client Info		N/A	Not Changd	N/A
Filter Changed		Client Info		N/A	Not Changd	N/A
Sample Status				ATTENTION	ATTENTION	ATTENTION

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>75	7	11	8
Chromium	ppm	ASTM D5185m	>8	<1	1	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m	>3	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>15	2	2	2
Lead	ppm	ASTM D5185m	>18	9	9	9
Copper	ppm	ASTM D5185m	>80	8	9	8
Tin	ppm	ASTM D5185m	>14	3	3	2
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

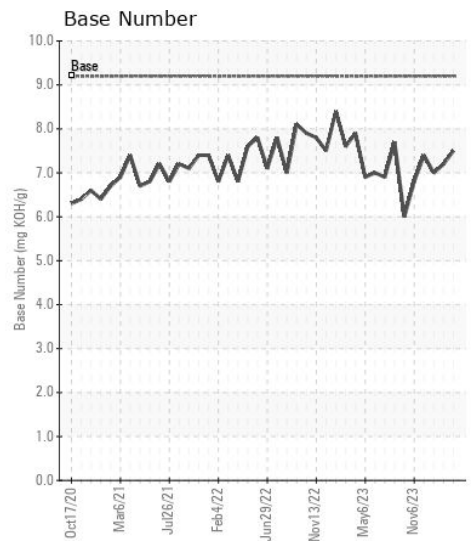
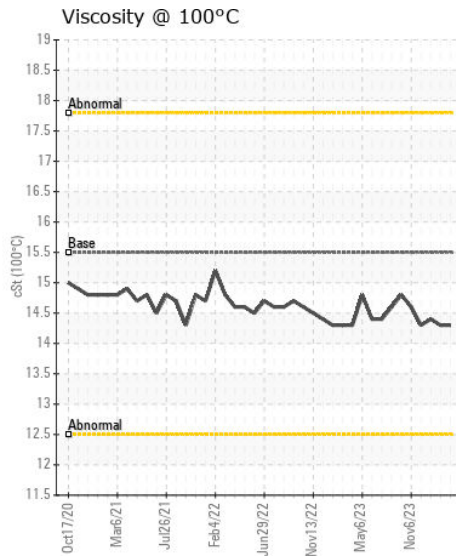
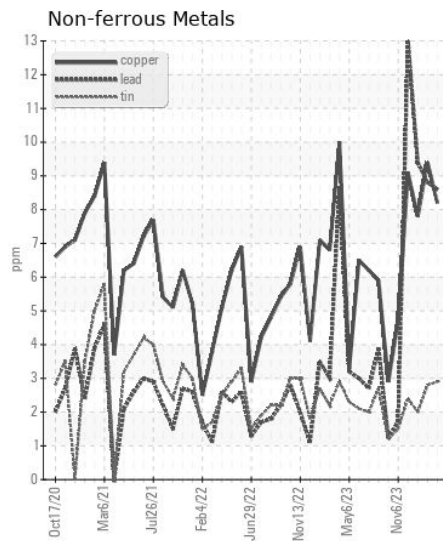
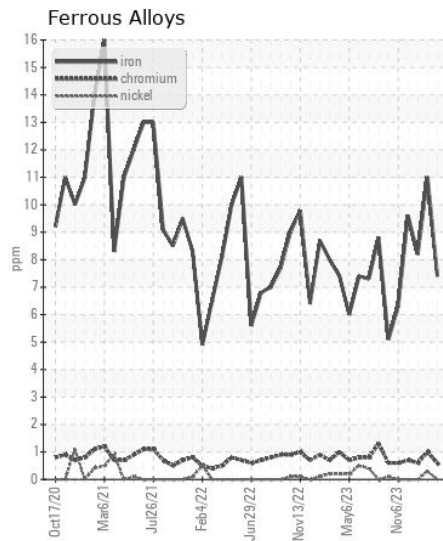
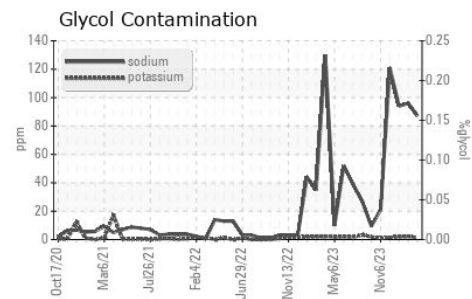
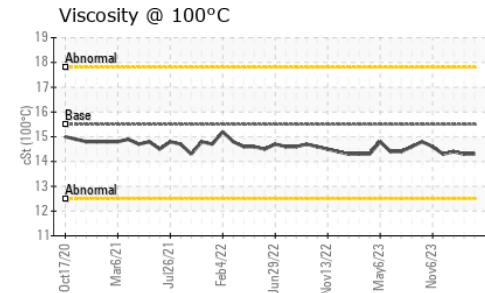
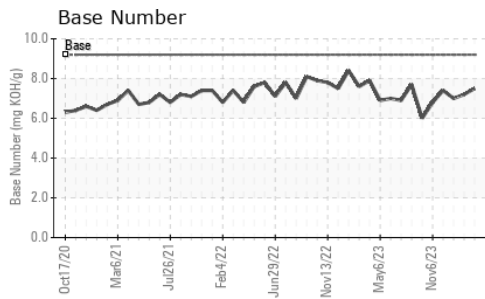
The high sodium (Na) level indicates the possible presence of salt water.

Silicon	ppm	ASTM D5185m	>20	7	8	8
Potassium	ppm	ASTM D5185m	>20	1	2	2
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol	%	*ASTM D2982		NEG	NEG	NEG
Soot %	%	*ASTM D7844		0.2	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	7.6	7.4	7.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	15.3	15.6	15.2
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	>75	87	96	94
Boron	ppm	ASTM D5185m		51	57	64
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		41	49	47
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		23	14	36
Calcium	ppm	ASTM D5185m		3249	3556	3324
Phosphorus	ppm	ASTM D5185m		15	17	26
Zinc	ppm	ASTM D5185m	10	11	11	31
Sulfur	ppm	ASTM D5185m		2139	2515	2263
Oxidation	Abs/.1mm	*ASTM D7414	>25	7.7	7.9	7.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.2	7.5	7.2	7.0
Visc @ 100°C	cSt	ASTM D445	15.5	14.3	14.3	14.4



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : MW0067110
Lab Number : 06105065
Unique Number : 10903295
Test Package : MAR 2 (Additional Tests: Glycol)

Received : 29 Feb 2024
Tested : 05 Mar 2024
Diagnosed : 05 Mar 2024 - Jonathan Hester

MAGNOLIA MARINE TRANSPORT
 697 HAINING ROAD
 VICKSBURG, MS
 US 39183
 Contact: MMT MAINTENANCE PLANNERS
 mmtmaintenanceplanners@ergon.com

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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