



WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ABNORMAL

Machine Id
SAFETY LEGEND (S/N J5951)

Component
Port Main Engine

Fluid
CHEVRON DELO 400 MULTIGRADE 15W40 (11 GAL)

RECOMMENDATION

We recommend that you change the oil at the next available stoppage or outage. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		MW0059618	MW0064248	MW0064244
Sample Date		Client Info		01 Jul 2024	25 Mar 2024	11 Jan 2024
Machine Age	hrs	Client Info		26265	26014	25918
Oil Age	hrs	Client Info		478	226	127
Filter Age	hrs	Client Info		478	226	127
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	MARGINAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>75	8	4	5
Chromium	ppm	ASTM D5185m	>8	<1	0	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m	>3	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>15	4	3	3
Lead	ppm	ASTM D5185m	>18	2	0	<1
Copper	ppm	ASTM D5185m	>80	19	3	4
Tin	ppm	ASTM D5185m	>14	1	0	<1
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

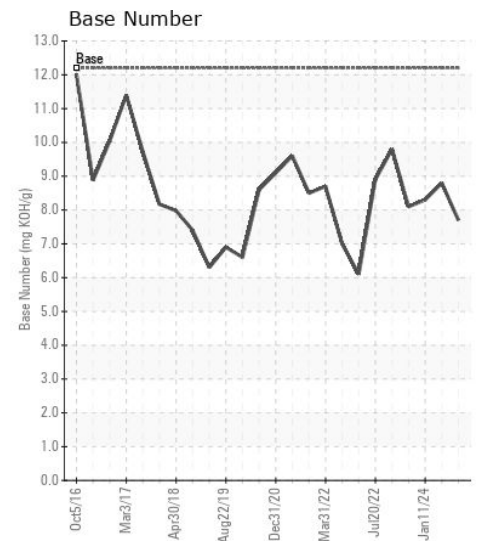
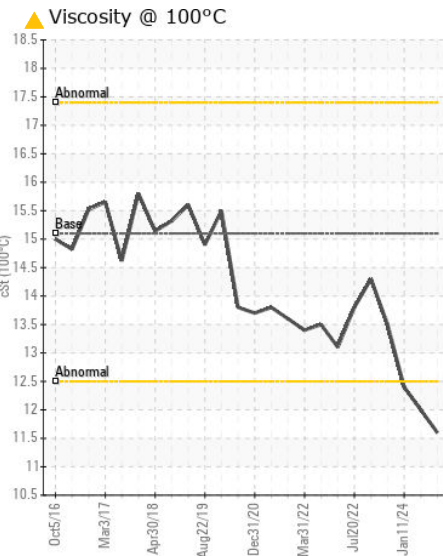
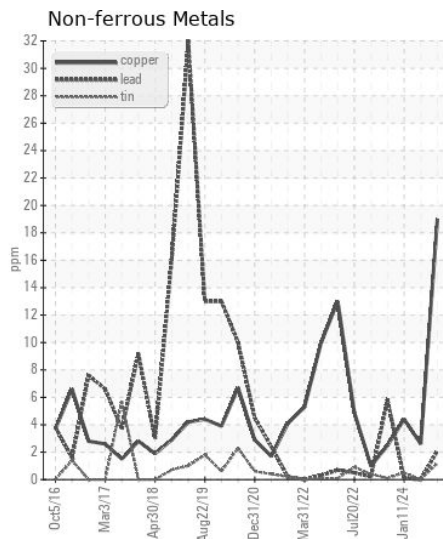
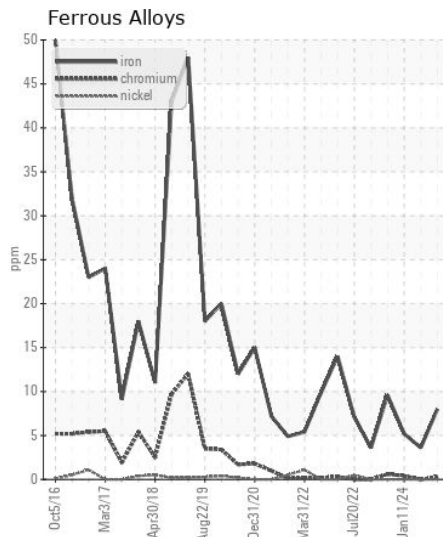
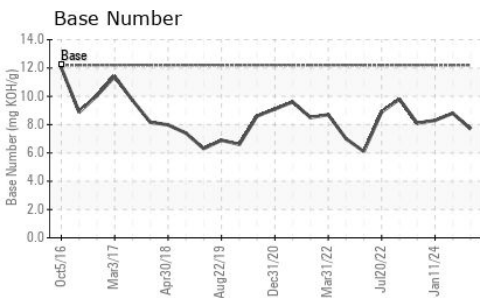
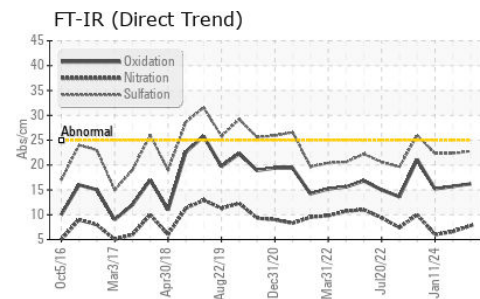
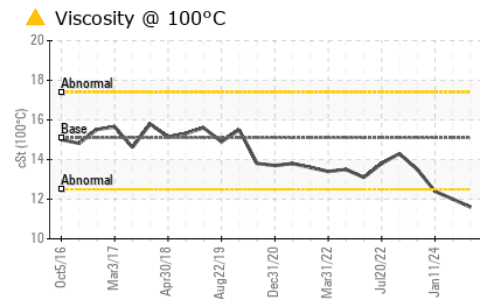
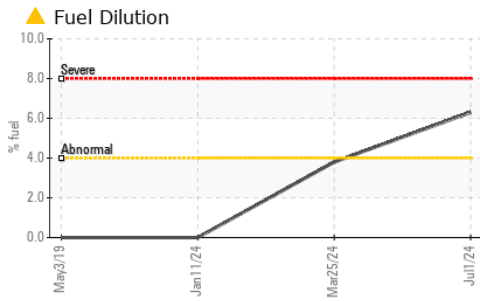
There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

Silicon	ppm	ASTM D5185m	>20	5	5	6
Potassium	ppm	ASTM D5185m	>20	3	<1	2
Fuel	%	ASTM D3524	>4.0	▲ 6.3	▲ 3.8	0.0
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844		0.8	0.4	0.4
Nitration	Abs/cm	*ASTM D7624	>20	7.8	6.6	6.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.8	22.3	22.3
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. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185m	>75	5	4	6
Boron	ppm	ASTM D5185m		276	327	340
Barium	ppm	ASTM D5185m		0	0	<1
Molybdenum	ppm	ASTM D5185m		114	121	122
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		601	669	671
Calcium	ppm	ASTM D5185m		1512	1559	1563
Phosphorus	ppm	ASTM D5185m	1360	698	737	744
Zinc	ppm	ASTM D5185m	1480	802	864	896
Sulfur	ppm	ASTM D5185m		2738	2993	2706
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.2	15.7	15.2
Base Number (BN)	mg KOH/g	ASTM D2896	12.2	7.7	8.8	8.3
Visc @ 100°C	cSt	ASTM D445	15.1	▲ 11.6	12.0	12.4



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : MW0059618

Lab Number : 06229800

Unique Number : 11113293

Test Package : MAR 2 (Additional Tests: FuelDilution, PercentFuel)

Received : 08 Jul 2024

Tested : 11 Jul 2024

Diagnosed : 11 Jul 2024 - Wes Davis

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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