



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
G ALLEN OLDHAM
Machine Id
[**G ALLEN OLDHAM**] 001 530090-1
Component
Port Main Engine
Fluid
CHEVRON DELO 710 LE (250 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		MW0064784	MW0060356	MW0060364
Sample Date		Client Info		01 Jun 2024	01 Dec 2023	01 Nov 2023
Machine Age	hrs	Client Info		6827	5211	4471
Oil Age	hrs	Client Info		6827	5211	4471
Filter Age	hrs	Client Info		31	212	4471
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>75	23	20	18
Chromium	ppm	ASTM D5185m	>8	3	3	2
Nickel	ppm	ASTM D5185m	>2	<1	<1	0
Titanium	ppm	ASTM D5185m	>3	<1	0	0
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>15	2	2	<1
Lead	ppm	ASTM D5185m	>18	16	15	11
Copper	ppm	ASTM D5185m	>80	20	21	20
Tin	ppm	ASTM D5185m	>14	9	9	8
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.

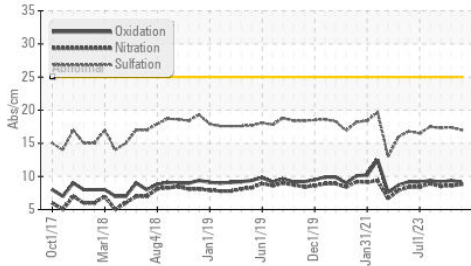
Silicon	ppm	ASTM D5185m	>20	6	6	6
Potassium	ppm	ASTM D5185m	>20	4	4	<1
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.6	0.7	0.7
Nitration	Abs/cm	*ASTM D7624	>20	8.8	8.6	8.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.0	17.4	17.3
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

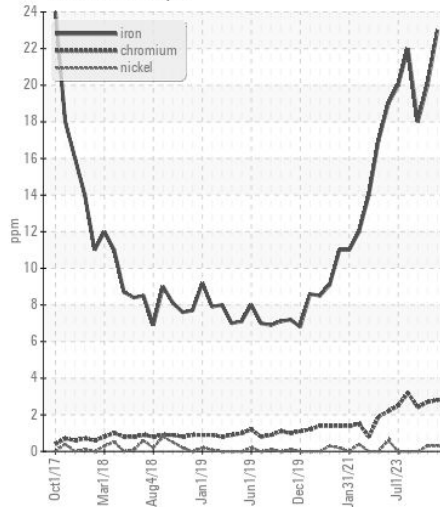
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>75	2	2	<1
Boron	ppm	ASTM D5185m		32	33	30
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		60	43	40
Manganese	ppm	ASTM D5185m		2	<1	<1
Magnesium	ppm	ASTM D5185m		38	13	11
Calcium	ppm	ASTM D5185m		3453	3132	3035
Phosphorus	ppm	ASTM D5185m		29	5	6
Zinc	ppm	ASTM D5185m	10	35	0	0
Sulfur	ppm	ASTM D5185m		2842	2305	2230
Oxidation	Abs/.1mm	*ASTM D7414	>25	9.1	9.4	9.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.2	7.87	7.83	7.58
Visc @ 100°C	cSt	ASTM D445	15.5	12.7	12.6	12.5

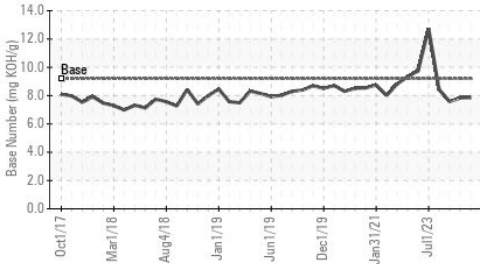
FT-IR (Direct Trend)



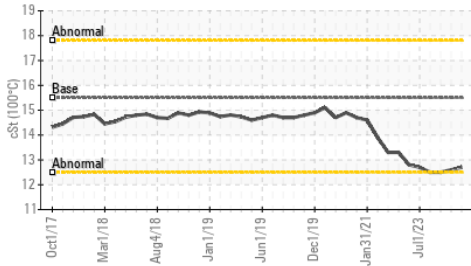
Ferrous Alloys



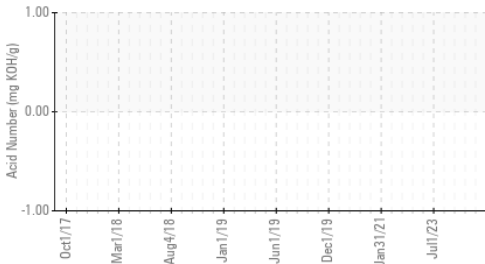
Base Number



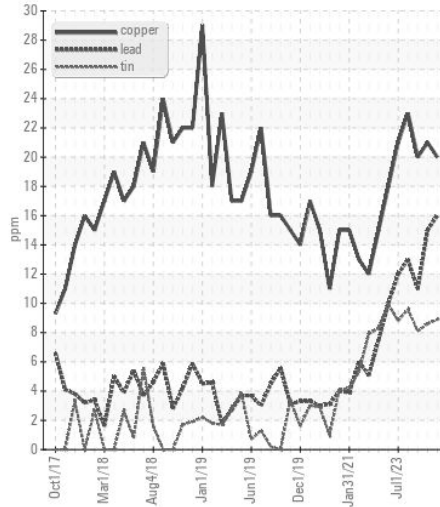
Viscosity @ 100°C



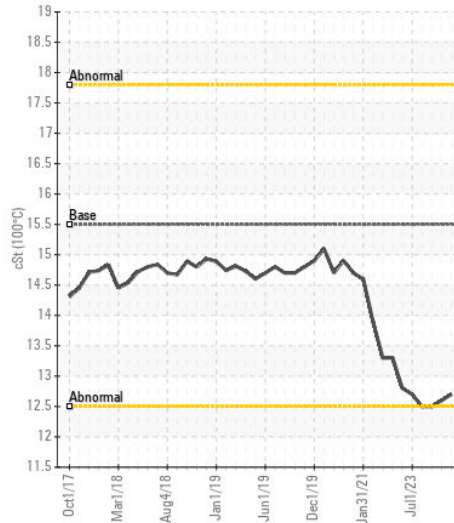
Acid Number



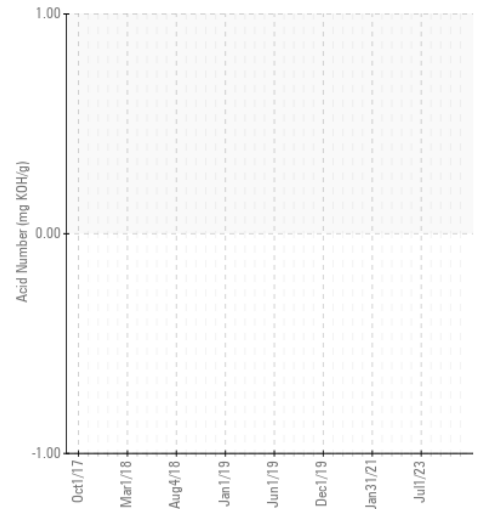
Non-ferrous Metals



Viscosity @ 100°C



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : MW0064784 **Received** : 24 Jun 2024
Lab Number : 06218419 **Tested** : 25 Jun 2024
Unique Number : 11096616 **Diagnosed** : 25 Jun 2024 - Sean Felton
Test Package : MAR 2 (Additional Tests: TAN Man)

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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