



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
CSP
Machine Id
CSP
Component
Port Main Engine
Fluid
CHEVRON DELO 710 LS (350 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		MW0061163	MW0061150	MW0043544
Sample Date		Client Info		11 Feb 2024	18 Dec 2023	31 Aug 2023
Machine Age	hrs	Client Info		113529	112211	109584
Oil Age	hrs	Client Info		19301	18116	15517
Filter Age	hrs	Client Info		1299	1271	1261
Oil Changed		Client Info		Not Chngd	Not Chngd	Not Chngd
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>75	3	3	7
Chromium	ppm	ASTM D5185m	>8	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m	>3	0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>15	2	2	2
Lead	ppm	ASTM D5185m	>18	2	3	4
Copper	ppm	ASTM D5185m	>80	7	9	15
Tin	ppm	ASTM D5185m	>14	2	3	4
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

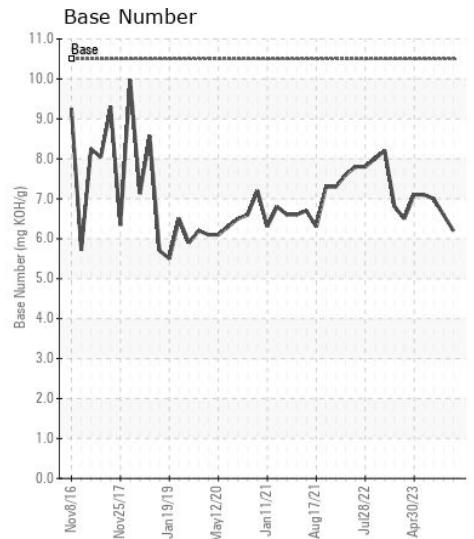
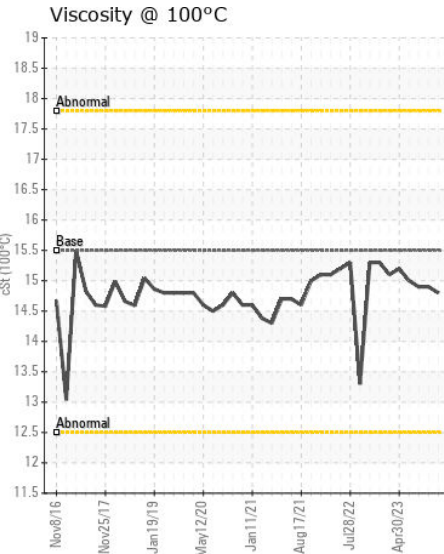
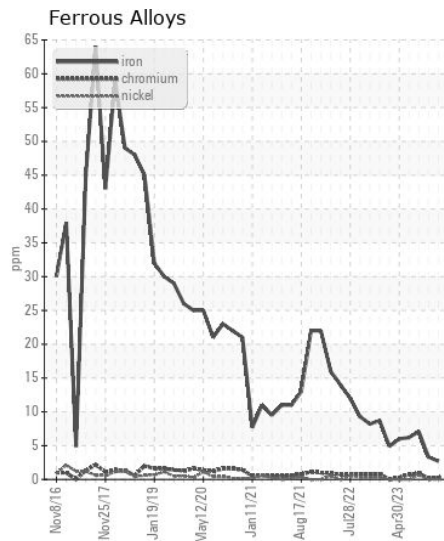
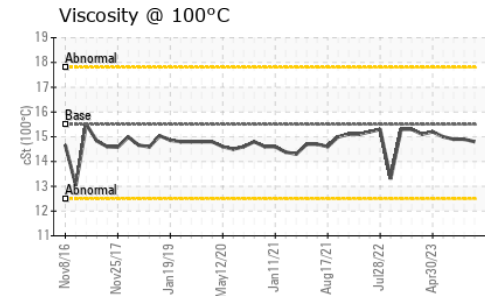
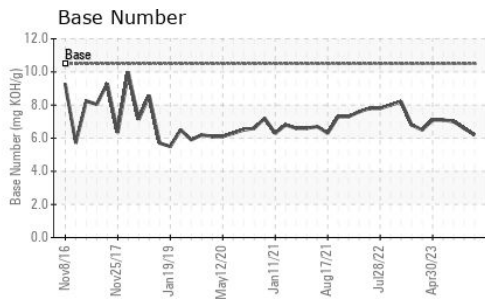
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	2	2	3
Potassium	ppm	ASTM D5185m	>20	1	1	3
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	0.1	0.1	0.2
Nitration	Abs/cm	*ASTM D7624	>20	8.1	8.2	8.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	15.7	15.8	16.3
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	0	0	0
Boron	ppm	ASTM D5185m		38	36	39
Barium	ppm	ASTM D5185m		0	0	12
Molybdenum	ppm	ASTM D5185m		44	43	49
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		12	11	9
Calcium	ppm	ASTM D5185m		3313	3234	3499
Phosphorus	ppm	ASTM D5185m		1	2	30
Zinc	ppm	ASTM D5185m		0	0	4
Sulfur	ppm	ASTM D5185m		2073	1984	2279
Oxidation	Abs/.1mm	*ASTM D7414	>25	9.2	9.2	9.6
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	6.2	6.6	7.0
Visc @ 100°C	cSt	ASTM D445	15.5	14.8	14.9	14.9



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : MW0061163
Lab Number : 06105811
Unique Number : 10909308
Test Package : MAR 2
Received : 01 Mar 2024
Tested : 02 Mar 2024
Diagnosed : 02 Mar 2024 - Wes Davis

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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)