



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
PB SHAH
Machine Id
[PB SHAH] 001 566553-1
Component
Port Main Engine
Fluid
CHEVRON DELO 710 LE (320 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		MW0066117	MW0065981	MW0065984
Sample Date		Client Info		01 Jun 2024	02 May 2024	05 Jan 2024
Machine Age	hrs	Client Info		1370	792	48972
Oil Age	hrs	Client Info		1370	792	17947
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	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	>75	23	22	14
Chromium	ppm	ASTM D5185m	>8	2	2	1
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m	>3	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>15	2	3	3
Lead	ppm	ASTM D5185m	>18	8	9	1
Copper	ppm	ASTM D5185m	>80	13	16	12
Tin	ppm	ASTM D5185m	>14	10	9	2
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

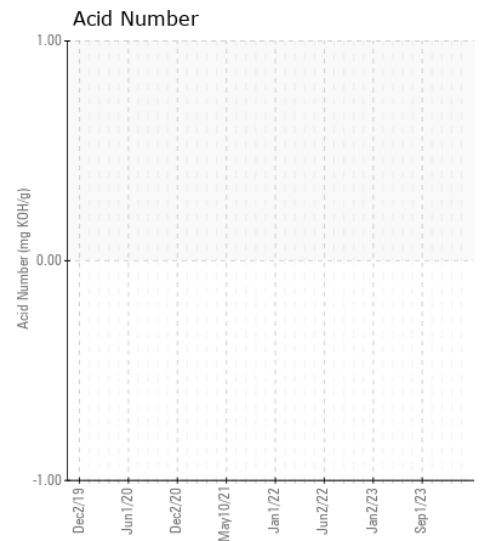
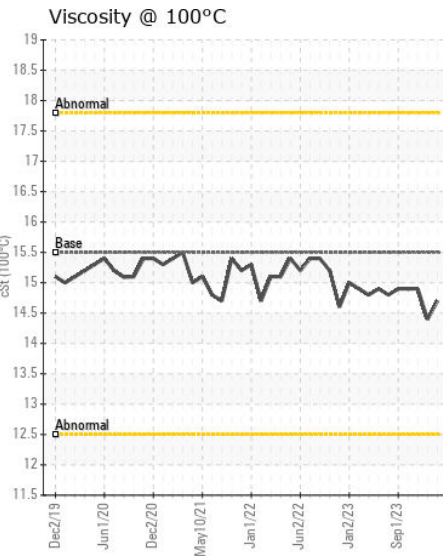
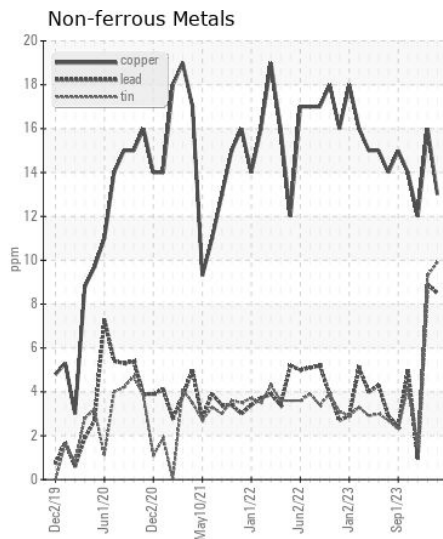
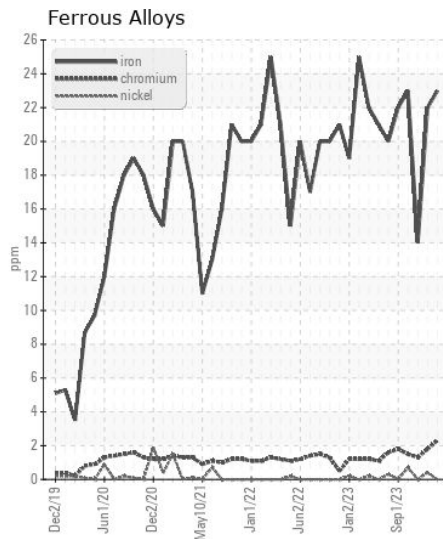
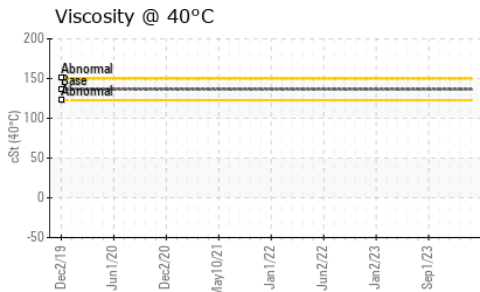
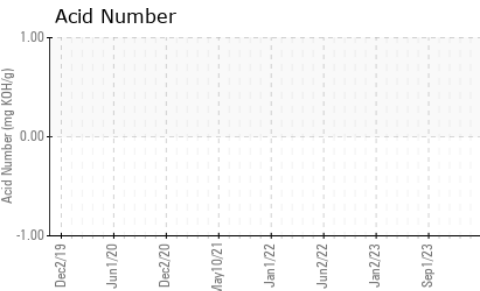
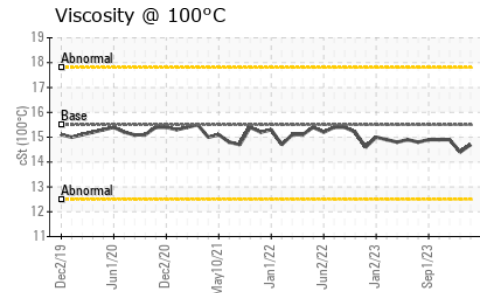
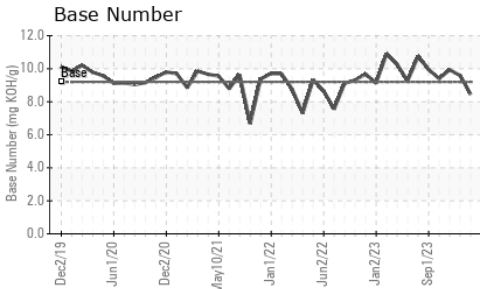
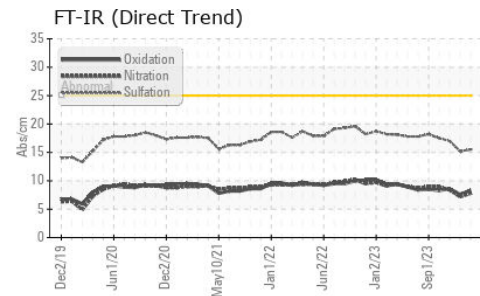
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	7	9	2
Potassium	ppm	ASTM D5185m	>20	2	4	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	>3	0.4	0.3	0.9
Nitration	Abs/cm	*ASTM D7624	>20	7.8	7.2	8.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	15.5	15.2	17.0
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 acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>75	6	11	0
Boron	ppm	ASTM D5185m		39	49	34
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		47	45	45
Manganese	ppm	ASTM D5185m		2	2	1
Magnesium	ppm	ASTM D5185m		11	11	14
Calcium	ppm	ASTM D5185m		3914	3419	3372
Phosphorus	ppm	ASTM D5185m		7	11	7
Zinc	ppm	ASTM D5185m	10	3	6	13
Sulfur	ppm	ASTM D5185m		2893	2765	2117
Oxidation	Abs/.1mm	*ASTM D7414	>25	8.3	7.6	8.6
Base Number (BN)	mg KOH/g	ASTM D2896	9.2	8.45	9.59	9.93
Visc @ 100°C	cSt	ASTM D445	15.5	14.7	14.4	14.9



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : MW0066117 **Received** : 14 Jun 2024
Lab Number : 06210906 **Tested** : 18 Jun 2024
Unique Number : 11083770 **Diagnosed** : 18 Jun 2024 - Sean Felton
Test Package : MAR 2 (Additional Tests: KV40, TAN Man)

INGRAM BARGE
 900 S 3RD ST
 PADUCAH, KY
 US 42003

Contact: ANTHONY VAN CURA
 anthony.vancura@ingrambarga.com

To discuss this sample report, contact Customer Service at 1-800-237-1369.

T: (270)415-4467

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

F: (615)695-3697

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)