



Area  
**CPT OA FRANKS**  
Machine Id  
**[CPT OA FRANKS] 001 586734-1**  
Component  
**Port Main Engine**  
Fluid  
**CHEVRON DELO 400 LE 15W40 (41 GAL)**

**RECOMMENDATION**

We advise that you check the fuel injection system. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>MW0071102</b>	MW06153832	MW06121737
Sample Date		Client Info		<b>30 Jun 2024</b>	01 Apr 2024	24 Feb 2024
Machine Age	hrs	Client Info		<b>42674</b>	40529	34673
Oil Age	hrs	Client Info		<b>300</b>	0	1398
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>ABNORMAL</b>	NORMAL	NORMAL

**WEAR**

The lead level is abnormal. All other component wear rates are normal.

Iron	ppm	ASTM D5185m	>75	<b>5</b>	8	10
Chromium	ppm	ASTM D5185m	>8	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m	>3	<b>2</b>	3	3
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>15	<b>3</b>	3	3
Lead	ppm	ASTM D5185m	>18	<b>▲ 24</b>	2	2
Copper	ppm	ASTM D5185m	>80	<b>5</b>	2	2
Tin	ppm	ASTM D5185m	>14	<b>0</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	LIGHT
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

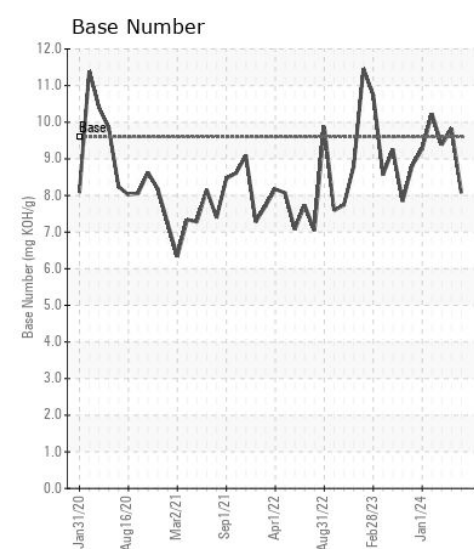
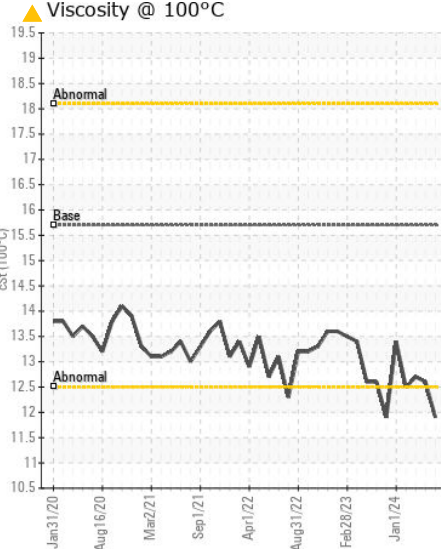
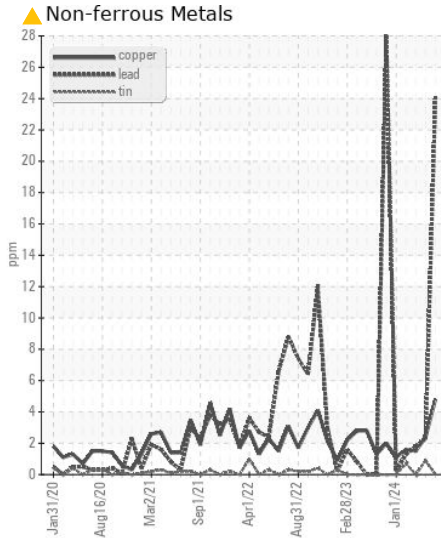
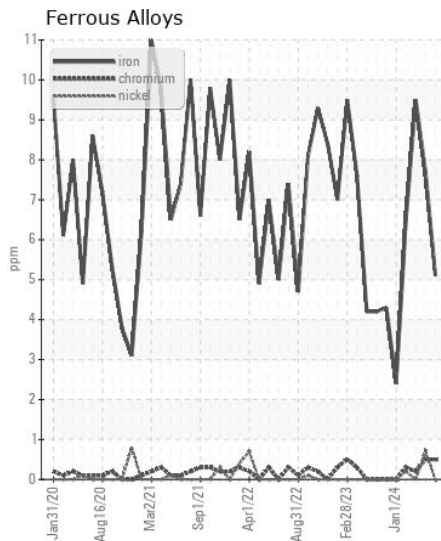
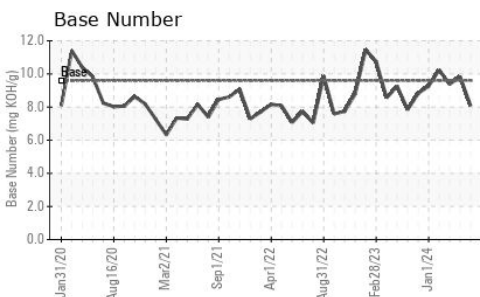
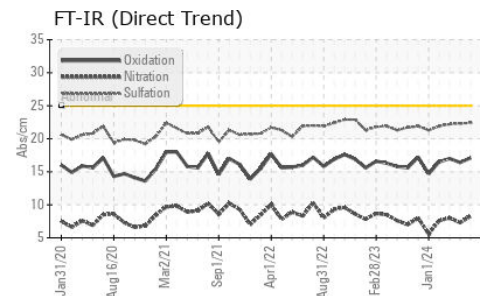
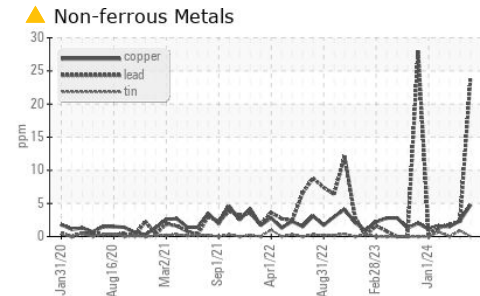
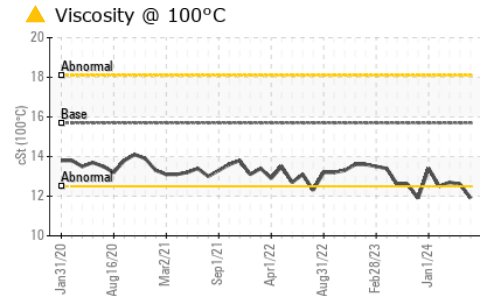
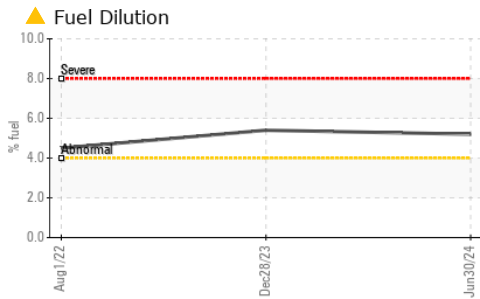
There is a moderate amount of fuel present in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>6</b>	6	9
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	2	2
Fuel	%	ASTM D3524	>4.0	<b>▲ 5.2</b>	<1.0	<1.0
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844		<b>0.2</b>	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.3</b>	7.3	8.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>22.4</b>	22.3	22.2
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

Sodium	ppm	ASTM D5185m	>75	<b>0</b>	0	<1
Boron	ppm	ASTM D5185m		<b>271</b>	361	304
Barium	ppm	ASTM D5185m		<b>0</b>	2	0
Molybdenum	ppm	ASTM D5185m		<b>104</b>	109	109
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	2	<1
Magnesium	ppm	ASTM D5185m		<b>582</b>	590	632
Calcium	ppm	ASTM D5185m		<b>1464</b>	1501	1577
Phosphorus	ppm	ASTM D5185m	1200	<b>670</b>	687	785
Zinc	ppm	ASTM D5185m	1300	<b>819</b>	796	855
Sulfur	ppm	ASTM D5185m	3200	<b>2353</b>	2818	2768
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>17.1</b>	16.4	17.0
Base Number (BN)	mg KOH/g	ASTM D2896	9.6	<b>8.07</b>	9.83	9.38
Visc @ 100°C	cSt	ASTM D445	15.7	<b>▲ 11.9</b>	12.6	12.7



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : MW0071102 **Received** : 15 Jul 2024  
**Lab Number** : 06237063 **Tested** : 18 Jul 2024  
**Unique Number** : 11125897 **Diagnosed** : 18 Jul 2024 - Jonathan Hester  
**Test Package** : MAR 2 ( Additional Tests: FuelDilution, PercentFuel )  
 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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