



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**SIEMENS MEG420**  
 Component  
**Natural Gas Engine**  
 Fluid  
**TRC LP & NATURAL GAS 40W (120 LTR)**

**RECOMMENDATION**

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

**WEAR**

All component wear rates are normal.

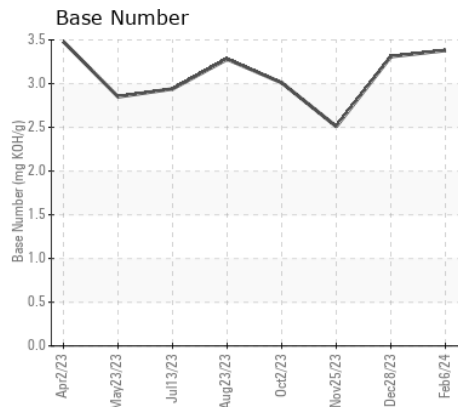
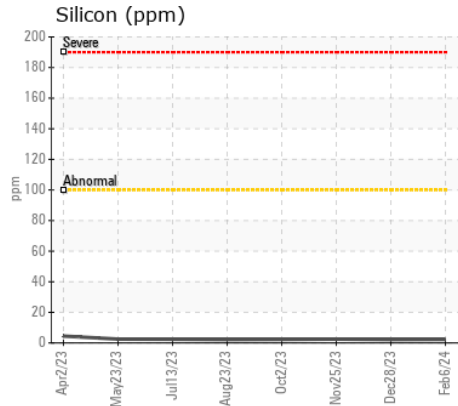
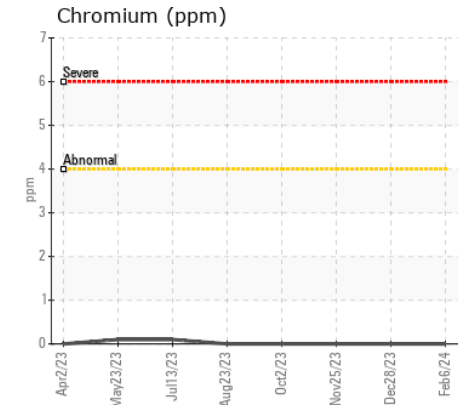
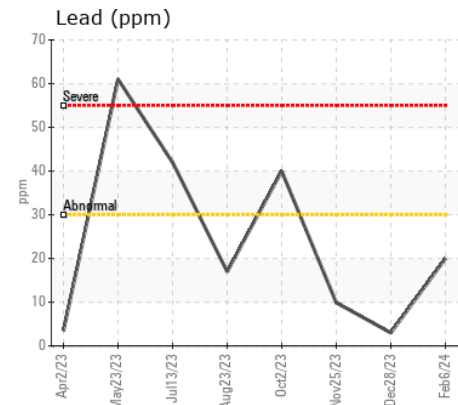
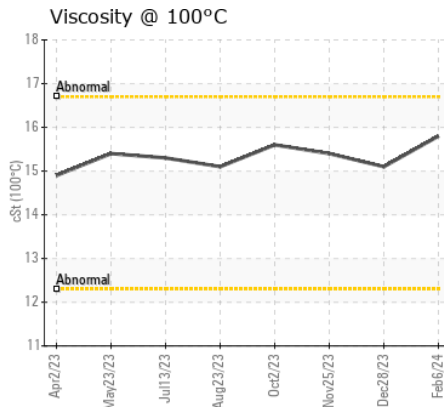
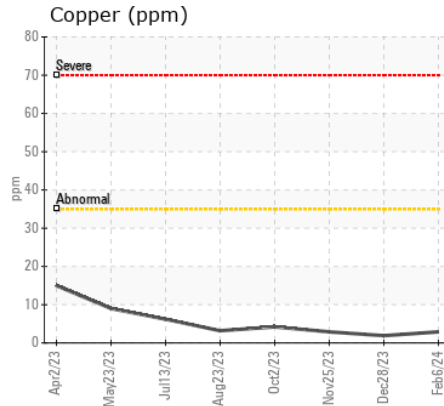
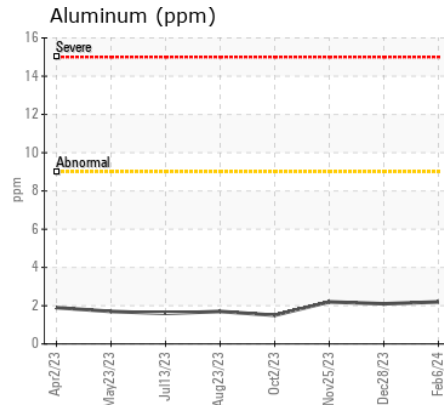
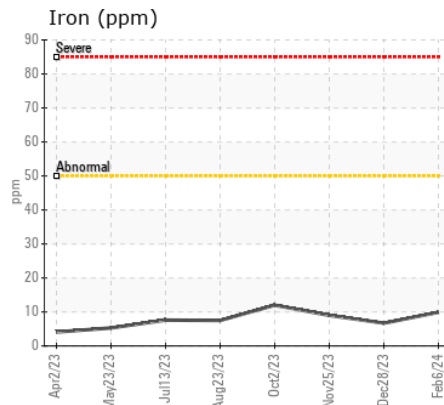
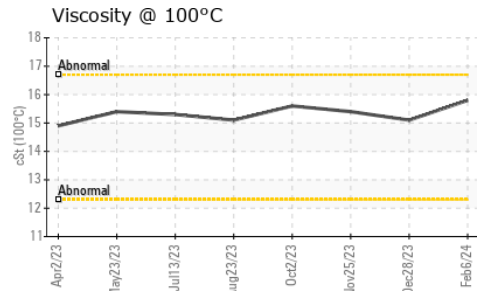
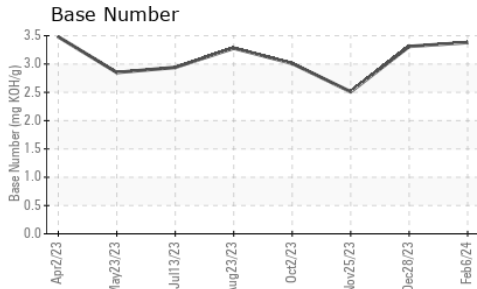
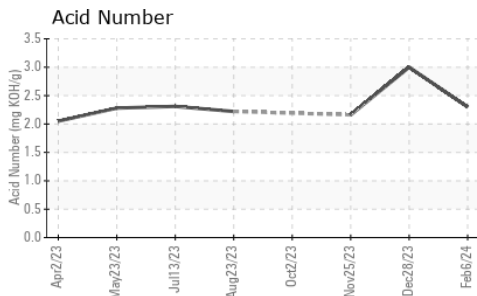
**CONTAMINATION**

There is no indication of any contamination in the oil.

**FLUID CONDITION**

The i-pH level is abnormally low. The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR02618309	TR02611787	TR02602239
Sample Date		Client Info		06 Feb 2024	28 Dec 2023	25 Nov 2023
Machine Age	hrs	Client Info		8634	7672	6880
Oil Age	hrs	Client Info		862	792	972
Filter Age	hrs	Client Info		862	0	972
Oil Changed		Client Info		Changed	N/A	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185(m)	>50	10	7	9
Chromium	ppm	ASTM D5185(m)	>4	0	0	0
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>9	2	2	2
Lead	ppm	ASTM D5185(m)	>30	20	3	10
Copper	ppm	ASTM D5185(m)	>35	3	2	3
Tin	ppm	ASTM D5185(m)	>4	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Silicon	ppm	ASTM D5185(m)	>+100	2	2	2
Potassium	ppm	ASTM D5185(m)	>20	1	<1	0
Water		WC Method	>0.1	NEG	NEG	NEG
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	7.0	6.1	6.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.0	19.7	20.2
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	NEG
Sodium	ppm	ASTM D5185(m)		1	1	2
Boron	ppm	ASTM D5185(m)		1	1	2
Barium	ppm	ASTM D5185(m)		0	0	<1
Molybdenum	ppm	ASTM D5185(m)		<1	<1	<1
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)		6	21	8
Calcium	ppm	ASTM D5185(m)		1729	1638	1661
Phosphorus	ppm	ASTM D5185(m)		300	300	293
Zinc	ppm	ASTM D5185(m)		370	375	363
Sulfur	ppm	ASTM D5185(m)		5027	4991	4688
Oxidation	Abs/.1mm	ASTM D7414*	>25	18.5	14.3	15.6
Acid Number (AN)	mg KOH/g	ASTM D974*		2.30	3.00	2.16
Base Number (BN)	mg KOH/g	ASTM D2896*		3.38	3.31	2.51
i-pH	Scale 0-14	ASTM D7946*	<4.5	3.62	▲ 4.37	▲ 4.07
Visc @ 100°C	cSt	ASTM D7279(m)		15.8	15.1	15.4



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **HARTLAND COLONY (HLAND FARMING)**  
**Sample No.** : TR02618309 **Received** : 27 Feb 2024 **RR #1**  
**Lab Number** : 02618309 **Tested** : 27 Feb 2024 **BASHAW, AB**  
**Unique Number** : 5735419 **Diagnosed** : 28 Feb 2024 - Kevin Marson **CA T0B 0H0**  
**Test Package** : MOB 2 ( Additional Tests: i-pH, TAN Auto, TAN Man ) **Contact: DAVID WALDNER**

To discuss this sample report, contact Customer Service at 1-800-827-0711.

\* - 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)

T: (403)588-9240  
F: (780)372-3685