TRAAP
Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ATTENTION

Machine Id
BUICK ANNS BUICK
Component
Gasoline Engine
Fluid
TRC MOLY XL PROSPEC III 15W40 (5 QTS)

RECOMMENDATION

Check for low coolant level. We advise that you check for the source of the coolant leak. We recommend an early resample to monitor this condition.

WEAR

All component wear rates are normal.

CONTAMINATION

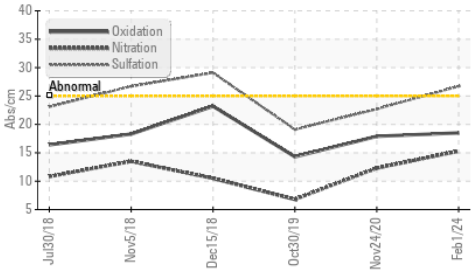
Sodium and/or potassium levels are high.

FLUID CONDITION

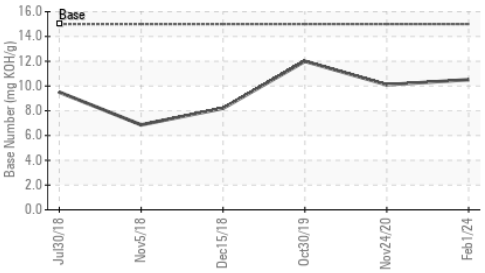
The BN result indicates that there is suitable alkalinity remaining in the oil.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR06214104	TR05129623	TR04839673
Sample Date		Client Info		01 Feb 2024	24 Nov 2020	30 Oct 2019
Machine Age	mls	Client Info		230000	216786	137000
Oil Age	mls	Client Info		3500	2500	600
Filter Age	mls	Client Info		3500	15	600
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	NORMAL
Iron	ppm	ASTM D5185m	>150	46	26	19
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	<1	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>40	12	7	5
Lead	ppm	ASTM D5185m	>50	2	1	4
Copper	ppm	ASTM D5185m	>155	5	3	5
Tin	ppm	ASTM D5185m	>10	2	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>30	22	17	19
Potassium	ppm	ASTM D5185m	>20	▲ 166	▲ 74	0
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	*ASTM D2982		NEG	NEG	NEG
Soot %	%	*ASTM D7844		0.1	0.1	0
Nitration	Abs/cm	*ASTM D7624	>20	15.3	12.3	6.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.7	22.7	19.1
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	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m	>400	● 79	38	22
Boron	ppm	ASTM D5185m		60	64	113
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		197	167	145
Manganese	ppm	ASTM D5185m		1	<1	<1
Magnesium	ppm	ASTM D5185m		478	397	342
Calcium	ppm	ASTM D5185m	4500	3683	3709	2927
Phosphorus	ppm	ASTM D5185m		916	802	703
Zinc	ppm	ASTM D5185m	1400	1021	937	804
Sulfur	ppm	ASTM D5185m		4195	2858	2584
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.5	17.9	14.3
Base Number (BN)	mg KOH/g	ASTM D2896	15	10.51	10.1	12.0
Visc @ 100°C	cSt	ASTM D445	15.5	14.0	14.4	13.0

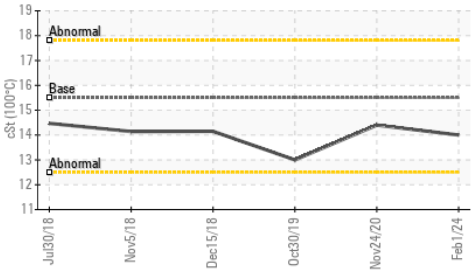
FT-IR (Direct Trend)



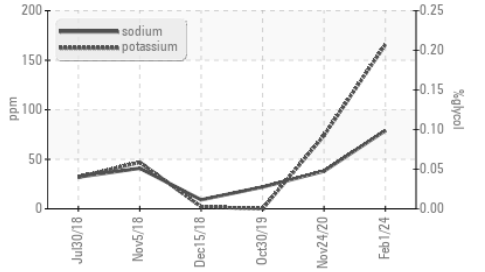
Base Number



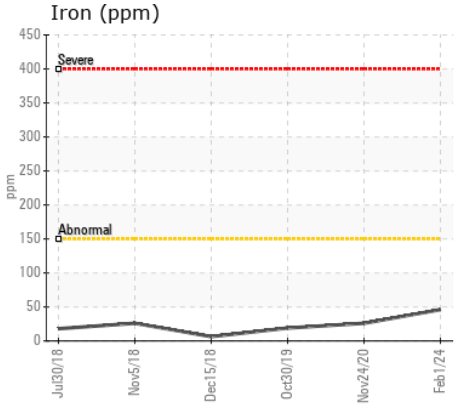
Viscosity @ 100°C



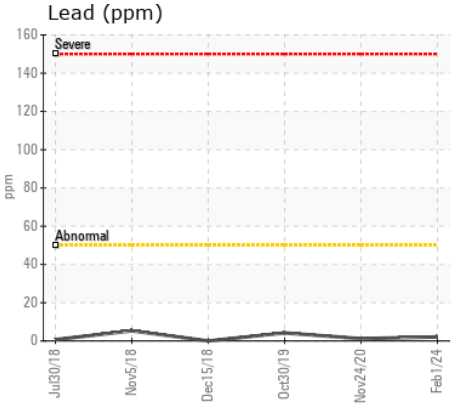
Glycol Contamination



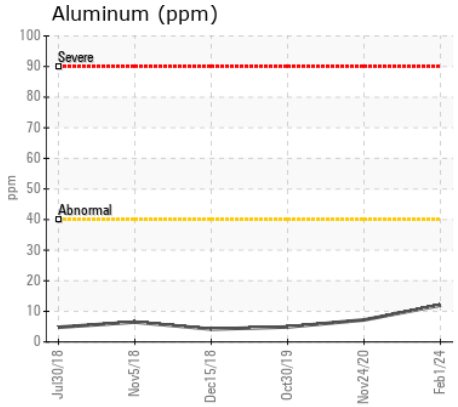
Iron (ppm)



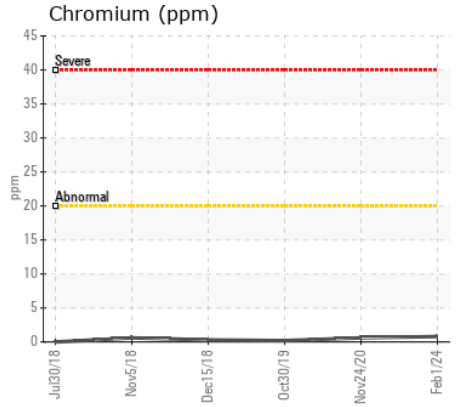
Lead (ppm)



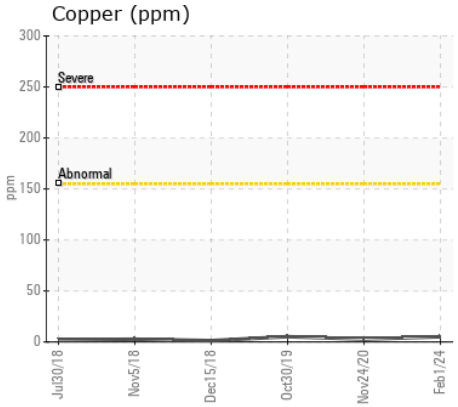
Aluminum (ppm)



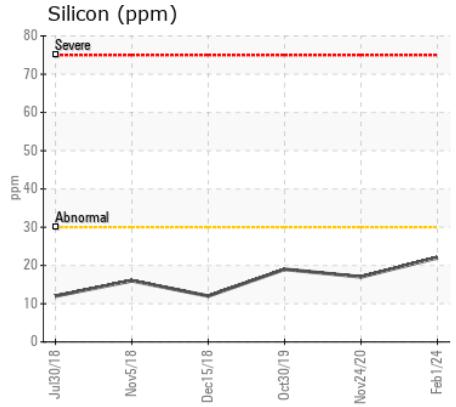
Chromium (ppm)



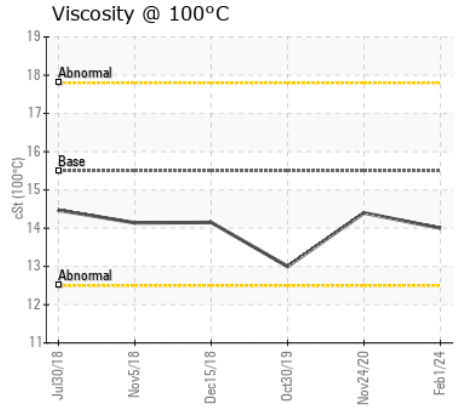
Copper (ppm)



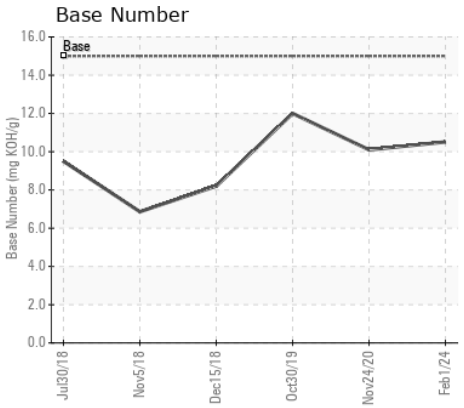
Silicon (ppm)



Viscosity @ 100°C



Base Number



ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
Certificate L2367

Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513		
Sample No.	: TR06214104	**Received**	: 18 Jun 2024
Lab Number	: 06214104	**Tested**	: 20 Jun 2024
Unique Number	: 11086968	**Diagnosed**	: 20 Jun 2024 - Sean Felton
Test Package	: MOB 2 (Additional Tests: Glycol)		

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)

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