



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ABNORMAL

Machine Id
SCAG ZTR SCAG ZTR
 Component
Gasoline Engine
 Fluid
TRC MOLY XL PROSPEC III 15W40 (2 QTS)

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.

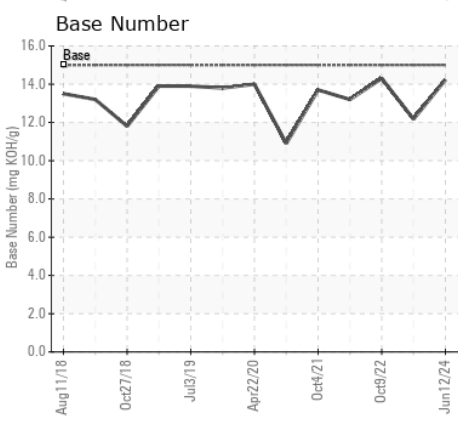
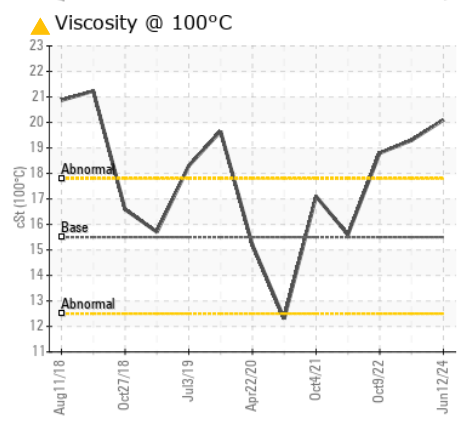
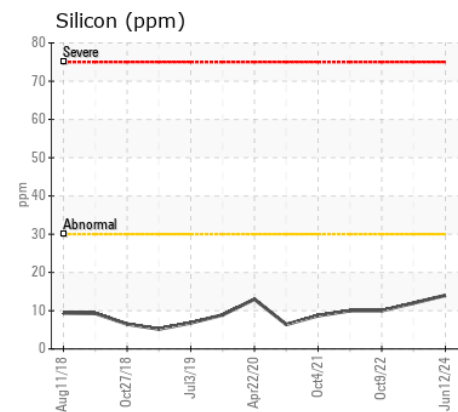
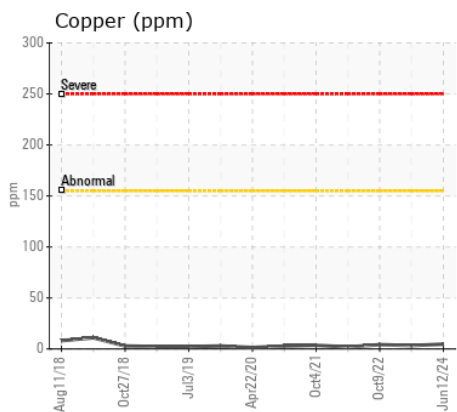
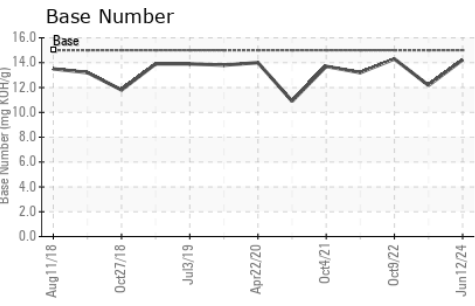
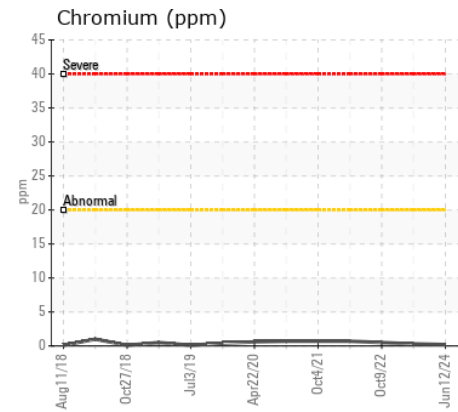
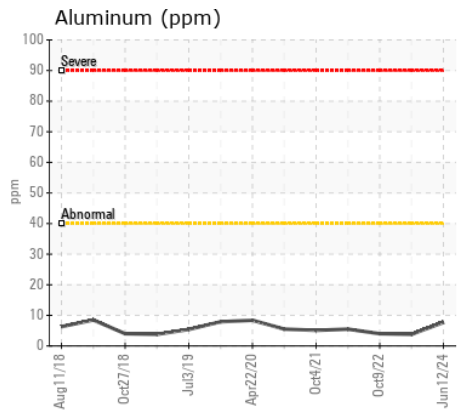
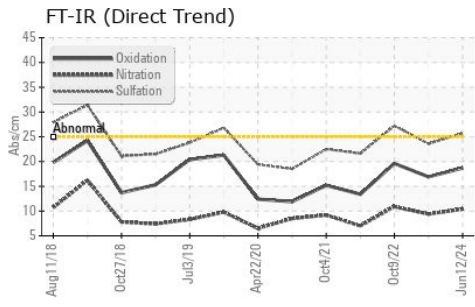
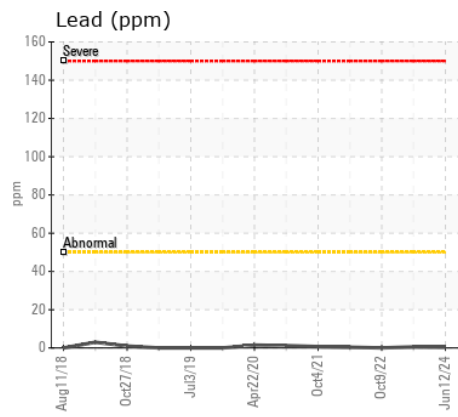
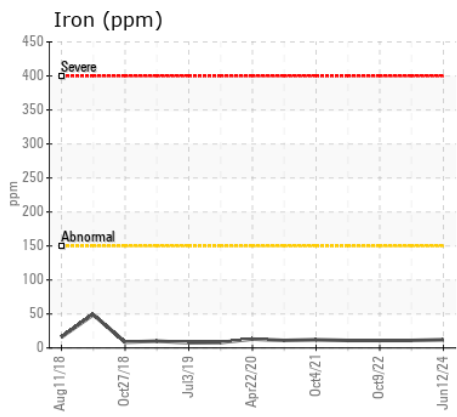
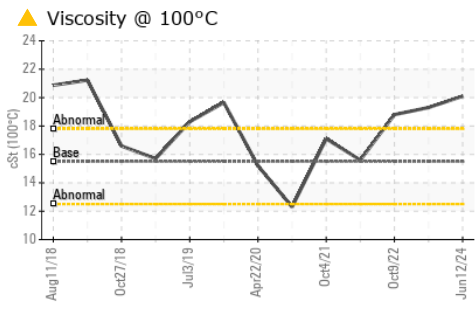
CONTAMINATION

There is no indication of any contamination in the oil.

FLUID CONDITION

The oil viscosity is higher than normal. 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		TR06214105	TR05908353	TR05676356
Sample Date		Client Info		12 Jun 2024	06 Jul 2023	09 Oct 2022
Machine Age	hrs	Client Info		2000	5000	1800
Oil Age	hrs	Client Info		100	2000	110
Filter Age	hrs	Client Info		100	100	12
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>150	12	11	11
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>40	8	4	4
Lead	ppm	ASTM D5185m	>50	<1	<1	0
Copper	ppm	ASTM D5185m	>155	5	3	4
Tin	ppm	ASTM D5185m	>10	<1	<1	0
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>30	14	12	10
Potassium	ppm	ASTM D5185m	>20	6	2	3
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844		0	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	10.4	9.4	10.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.7	23.6	27.2
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	5	3	2
Boron	ppm	ASTM D5185m		154	167	121
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		249	225	214
Manganese	ppm	ASTM D5185m		1	<1	<1
Magnesium	ppm	ASTM D5185m		470	474	306
Calcium	ppm	ASTM D5185m	4500	4775	4448	4352
Phosphorus	ppm	ASTM D5185m		912	805	812
Zinc	ppm	ASTM D5185m	1400	1207	1136	1129
Sulfur	ppm	ASTM D5185m		4496	4307	3979
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.7	16.9	19.6
Base Number (BN)	mg KOH/g	ASTM D2896	15	14.23	12.17	14.3
Visc @ 100°C	cSt	ASTM D445	15.5	▲ 20.1	▲ 19.3	▲ 18.8



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TR06214105 **Received** : 18 Jun 2024
Lab Number : 06214105 **Tested** : 20 Jun 2024
Unique Number : 11086969 **Diagnosed** : 20 Jun 2024 - Sean Felton
Test Package : MOB 2

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 skufchock@gmail.com
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Certificate L2367
 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)