



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
T15
 Component
Diesel Engine
 Fluid
TRC PRO-SPEC V SYN BLEND 15W40 (12 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR0001653	TR0001271	---
Sample Date		Client Info		15 Jul 2024	24 Oct 2023	---
Machine Age	hrs	Client Info		2629	1320	---
Oil Age	hrs	Client Info		2629	1320	---
Filter Age	hrs	Client Info		2629	1320	---
Oil Changed		Client Info		Not Changd	Not Changd	---
Filter Changed		Client Info		Changed	Not Changd	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	69	20	---
Chromium	ppm	ASTM D5185m	>20	3	1	---
Nickel	ppm	ASTM D5185m	>4	0	<1	---
Titanium	ppm	ASTM D5185m		<1	0	---
Silver	ppm	ASTM D5185m	>3	0	0	---
Aluminum	ppm	ASTM D5185m	>20	8	7	---
Lead	ppm	ASTM D5185m	>40	4	2	---
Copper	ppm	ASTM D5185m	>330	7	6	---
Tin	ppm	ASTM D5185m	>15	1	1	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

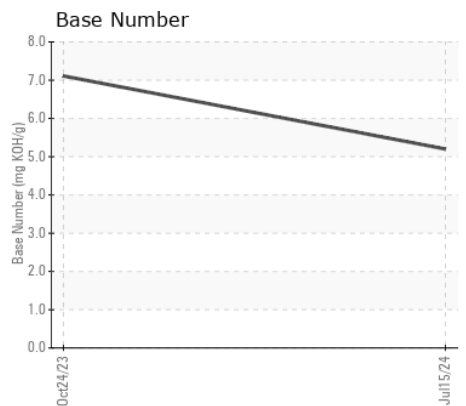
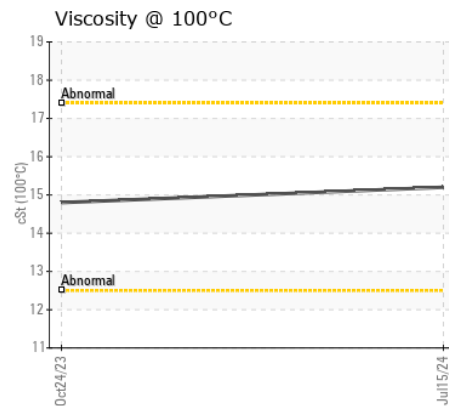
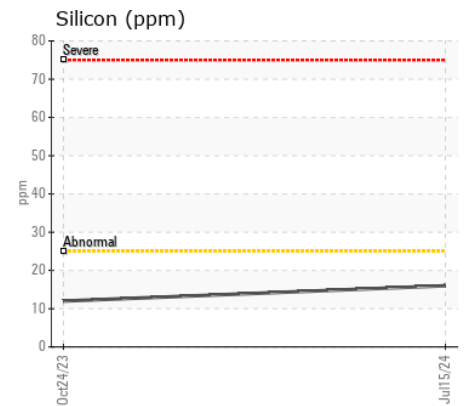
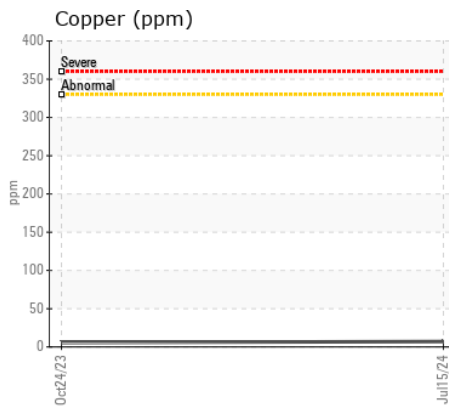
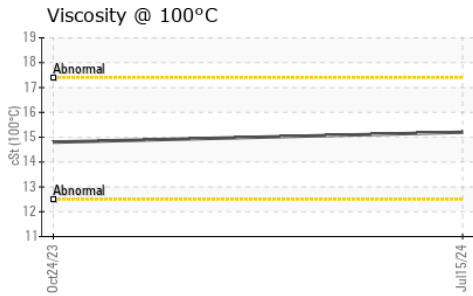
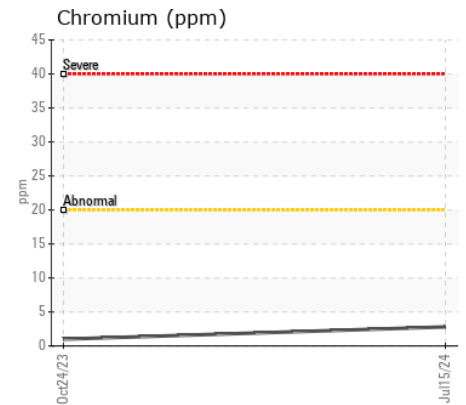
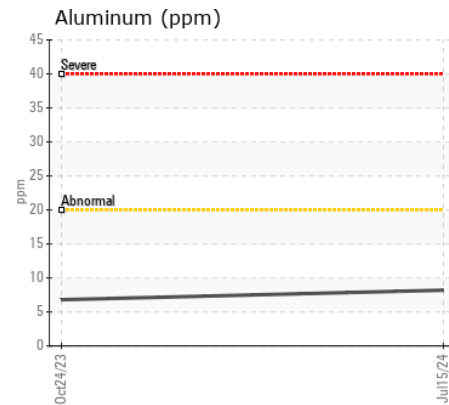
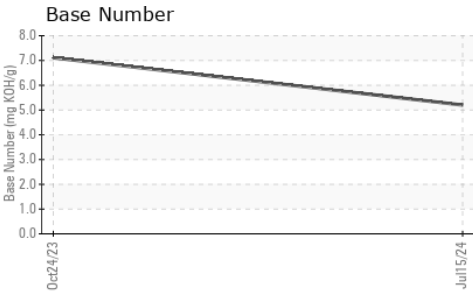
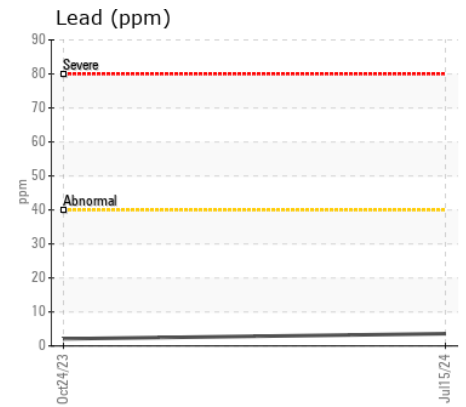
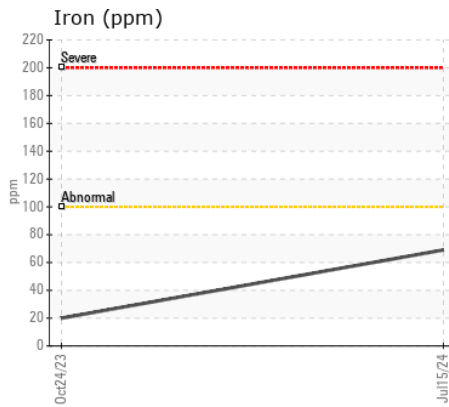
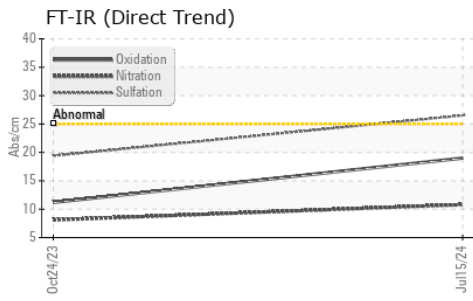
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	16	12	---
Potassium	ppm	ASTM D5185m	>20	26	24	---
Fuel		WC Method	>5	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	1.4	0.7	---
Nitration	Abs/cm	*ASTM D7624	>20	10.8	8.1	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.5	19.4	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	---

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		3	4	---
Boron	ppm	ASTM D5185m		2	2	---
Barium	ppm	ASTM D5185m		<1	0	---
Molybdenum	ppm	ASTM D5185m		3	1	---
Manganese	ppm	ASTM D5185m		2	1	---
Magnesium	ppm	ASTM D5185m		85	71	---
Calcium	ppm	ASTM D5185m		2586	2150	---
Phosphorus	ppm	ASTM D5185m		937	821	---
Zinc	ppm	ASTM D5185m		1163	1038	---
Sulfur	ppm	ASTM D5185m		3772	3171	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.0	11.2	---
Base Number (BN)	mg KOH/g	ASTM D2896		5.20	7.11	---
Visc @ 100°C	cSt	ASTM D445		15.2	14.8	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TR0001653
Lab Number : 06239646
Unique Number : 11128480
Test Package : MOB 2
Received : 17 Jul 2024
Tested : 18 Jul 2024
Diagnosed : 19 Jul 2024 - Sean Felton

S S CONCRETE MATERIALS LLC
 P.O. BOX 23283
 BULLHEAD CITY, AZ
 US 86439
 Contact: SNS INVENTORY
 snsinventory@yahoo.com

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) F: (928)754-1991