



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id

86

Component

Rear Differential

Fluid

TRC MOLY ULTRA-TEC GEAR OIL 85W140 (10 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR0001519	TR0001358	TR05117507
Sample Date		Client Info		03 Jul 2024	20 Mar 2024	04 Nov 2020
Machine Age	hrs	Client Info		21408	20872	14552
Oil Age	hrs	Client Info		21408	20872	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		N/A	N/A	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	341	148	139
Chromium	ppm	ASTM D5185m	>10	3	<1	<1
Nickel	ppm	ASTM D5185m	>10	1	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>25	4	1	0
Lead	ppm	ASTM D5185m	>25	<1	0	0
Copper	ppm	ASTM D5185m	>100	2	<1	<1
Tin	ppm	ASTM D5185m	>10	0	<1	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

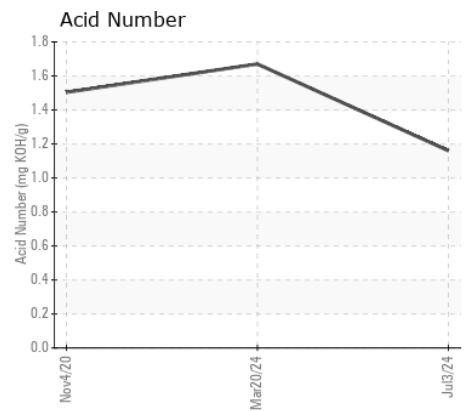
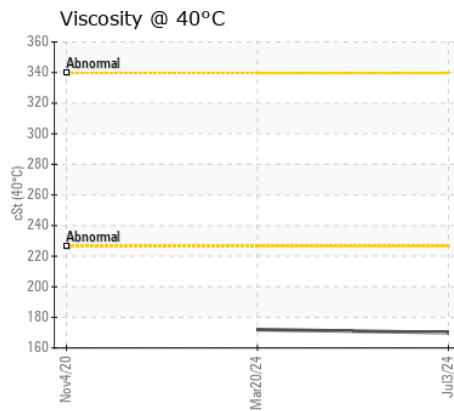
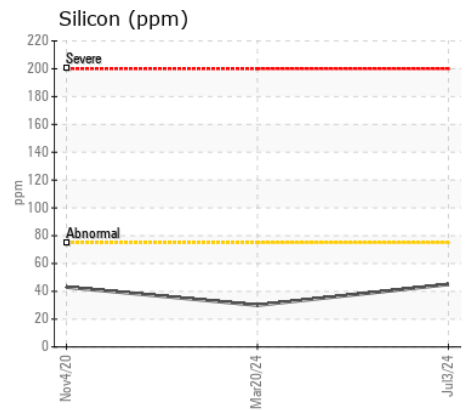
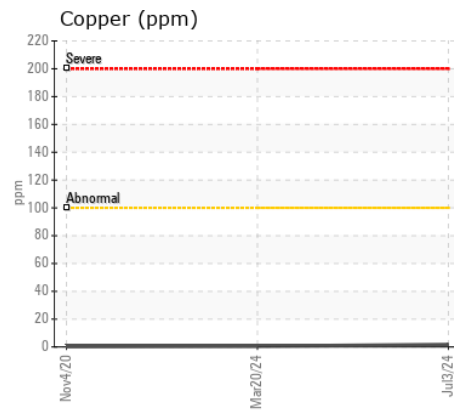
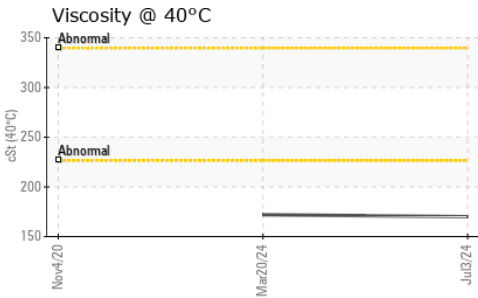
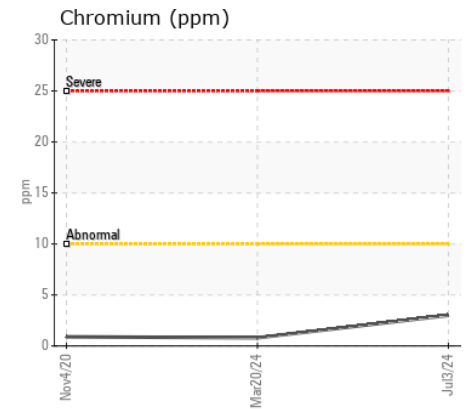
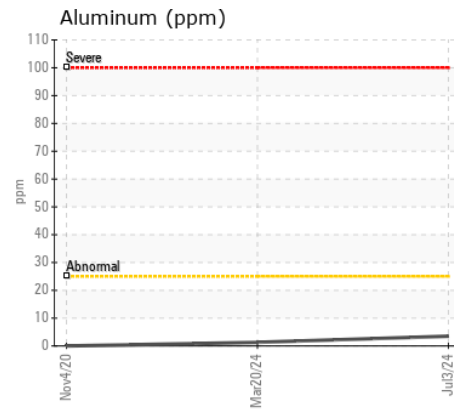
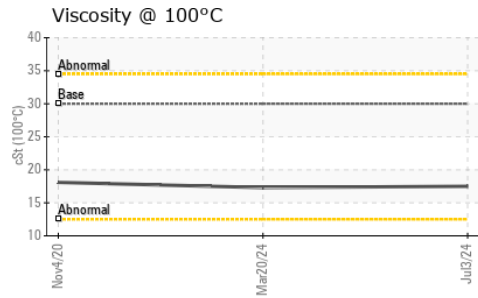
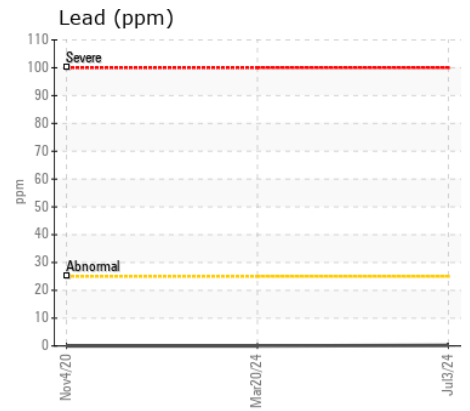
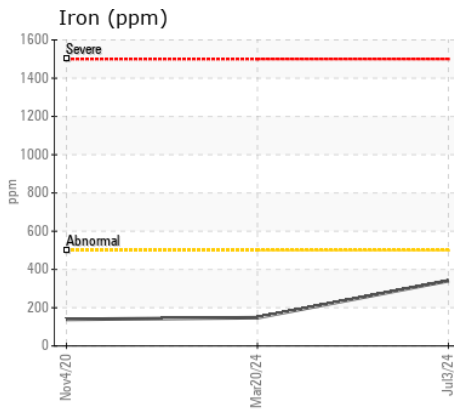
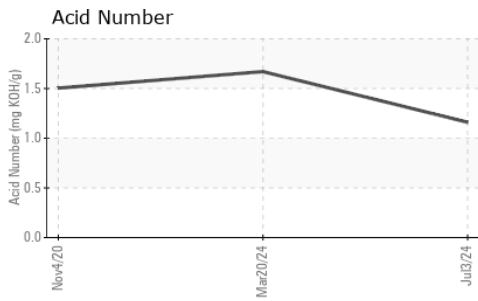
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	45	30	43
Potassium	ppm	ASTM D5185m	>20	5	2	<1
Water		WC Method	>.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	MODER	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	>.2	NEG	NEG	NEG

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		4	6	0
Boron	ppm	ASTM D5185m		167	145	235
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		26	0	<1
Manganese	ppm	ASTM D5185m		4	3	2
Magnesium	ppm	ASTM D5185m		4	4	2
Calcium	ppm	ASTM D5185m		96	44	27
Phosphorus	ppm	ASTM D5185m		888	897	926
Zinc	ppm	ASTM D5185m		36	18	5
Sulfur	ppm	ASTM D5185m		18890	21886	17933
Acid Number (AN)	mg KOH/g	ASTM D8045		1.16	1.67	1.504
Visc @ 40°C	cSt	ASTM D445		170	172	---
Visc @ 100°C	cSt	ASTM D445	30	17.5	17.3	18.1
Viscosity Index (VI)	Scale	ASTM D2270	105	111	108	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : TR0001519

Lab Number : 06230331

Unique Number : 11113824

Test Package : MOB 2 (Additional Tests: KV100, VI)

Received : 08 Jul 2024

Tested : 09 Jul 2024

Diagnosed : 09 Jul 2024 - Wes Davis

S S CONCRETE MATERIALS LLC

P.O. BOX 23283

BULLHEAD CITY, AZ

US 86439

Contact: MARK OPHEIM

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:

F: (928)754-1991