



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id

72

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		TR0001546	TR0001330	TR0001200
Sample Date		Client Info		17 Apr 2024	21 Dec 2023	06 Oct 2023
Machine Age	hrs	Client Info		22691	22669	22249
Oil Age	hrs	Client Info		22691	22669	22249
Filter Age	hrs	Client Info		0	0	22249
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	276	215	280
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	1	<1	1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	3	3	0
Lead	ppm	ASTM D5185m	>25	<1	0	<1
Copper	ppm	ASTM D5185m	>100	2	0	1
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

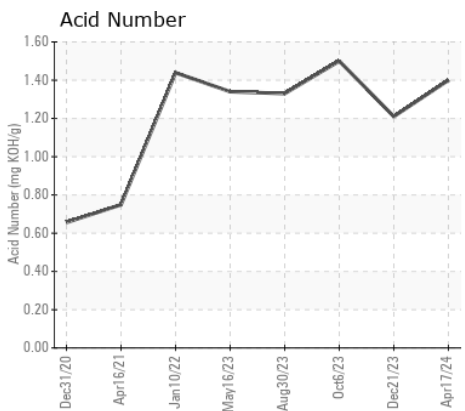
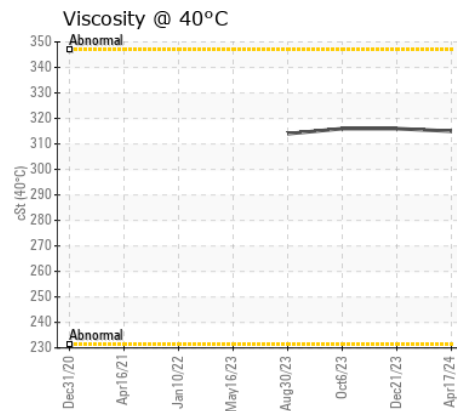
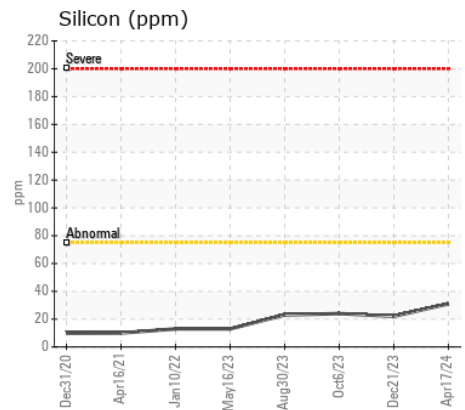
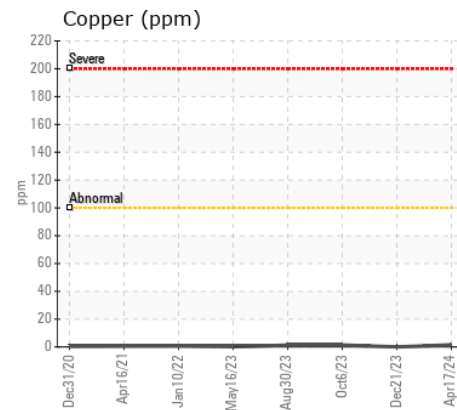
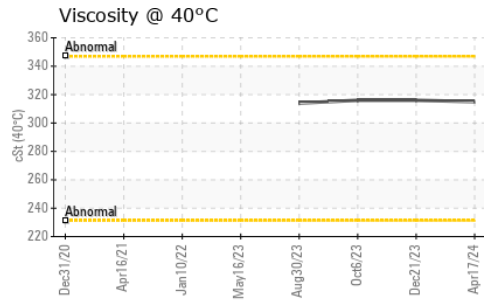
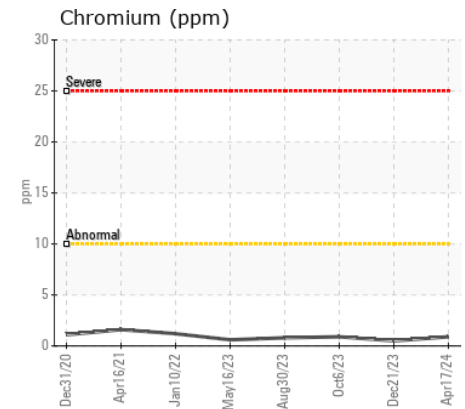
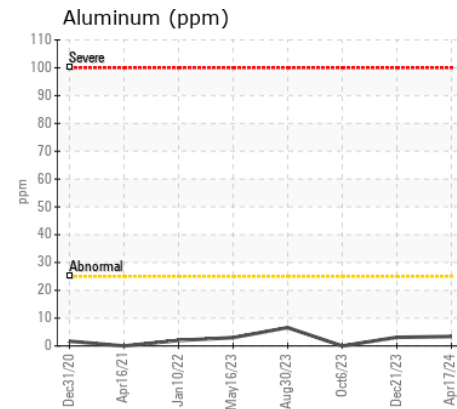
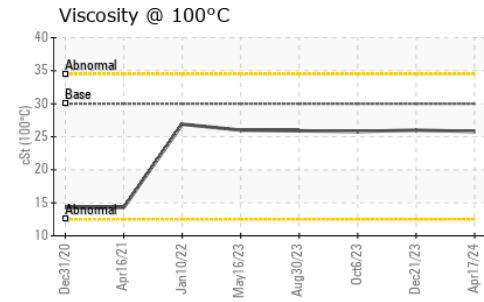
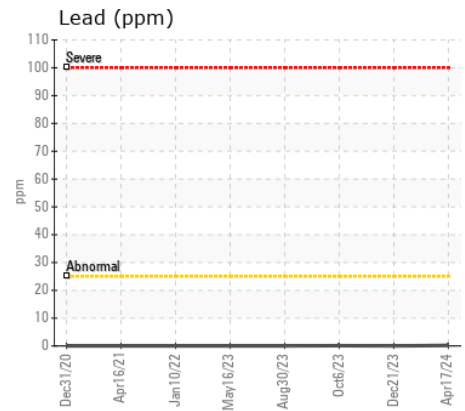
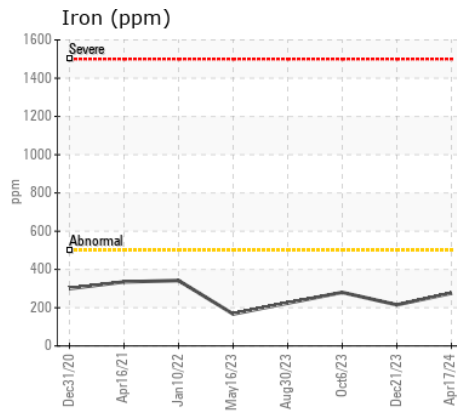
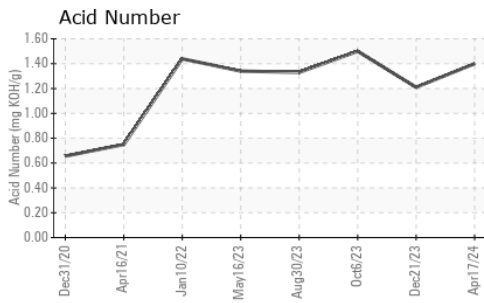
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	31	22	24
Potassium	ppm	ASTM D5185m	>20	4	1	3
Water		WC Method	>.2	NEG	NEG	NEG
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	>.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		1	1	0
Boron	ppm	ASTM D5185m		165	157	194
Barium	ppm	ASTM D5185m		0	<1	3
Molybdenum	ppm	ASTM D5185m		1	0	1
Manganese	ppm	ASTM D5185m		4	3	5
Magnesium	ppm	ASTM D5185m		5	5	4
Calcium	ppm	ASTM D5185m		40	44	45
Phosphorus	ppm	ASTM D5185m		837	951	980
Zinc	ppm	ASTM D5185m		31	27	35
Sulfur	ppm	ASTM D5185m		18317	19025	22176
Acid Number (AN)	mg KOH/g	ASTM D8045		1.40	1.21	1.50
Visc @ 40°C	cSt	ASTM D445		315	316	316
Visc @ 100°C	cSt	ASTM D445	30	25.8	26.0	25.8
Viscosity Index (VI)	Scale	ASTM D2270	105	106	107	106



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TR0001546 **Received** : 19 Apr 2024
Lab Number : 06155236 **Tested** : 24 Apr 2024
Unique Number : 10990659 **Diagnosed** : 24 Apr 2024 - Don Baldrige
Test Package : MOB 2 (Additional Tests: KV100, VI)

S S CONCRETE MATERIALS LLC
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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:
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