



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id

16

Component

1 Drum Gearbox

Fluid

TRC MOLY ULTRA-TEC GEAR OIL 85W140 (2 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR0001675	TR0001308	TR0000521
Sample Date		Client Info		11 Jul 2024	09 Jan 2024	17 Mar 2022
Machine Age	hrs	Client Info		13613	12723	8930
Oil Age	hrs	Client Info		13613	12723	1
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	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	146	6	16
Chromium	ppm	ASTM D5185m	>10	2	0	0
Nickel	ppm	ASTM D5185m	>10	0	<1	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m		9	2	0
Lead	ppm	ASTM D5185m		0	<1	0
Copper	ppm	ASTM D5185m		3	0	2
Tin	ppm	ASTM D5185m		0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

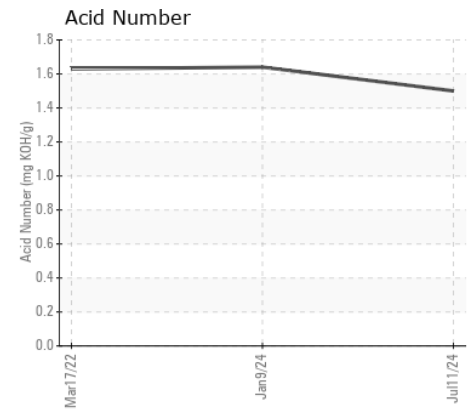
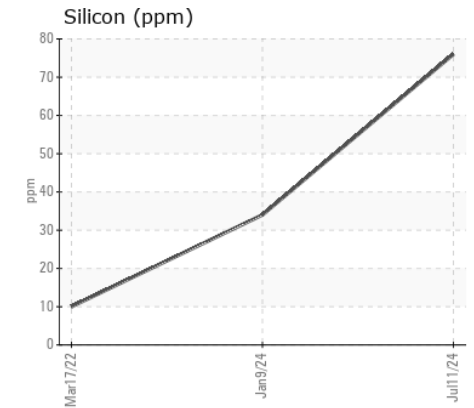
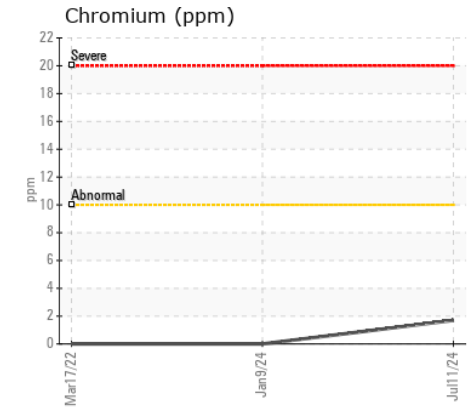
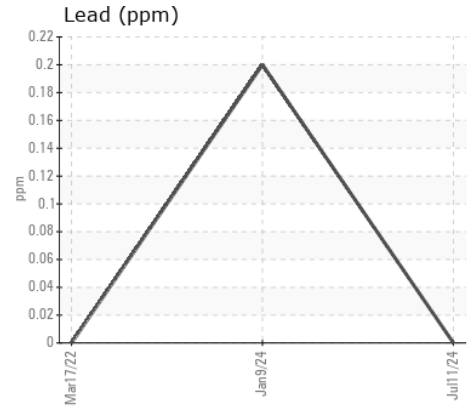
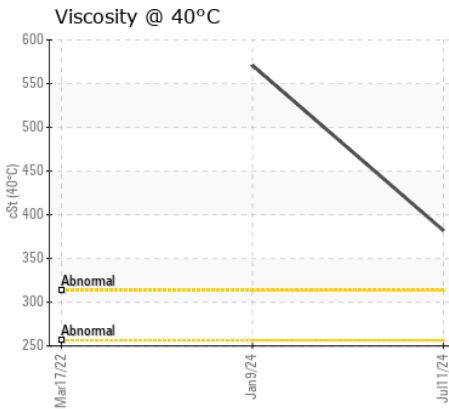
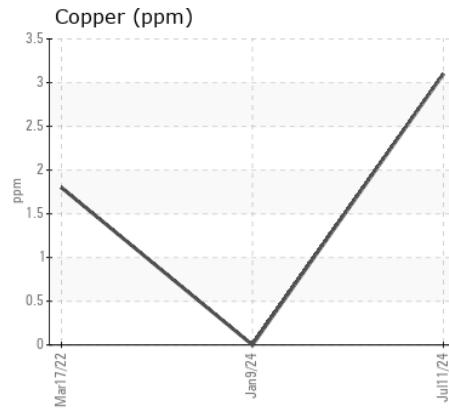
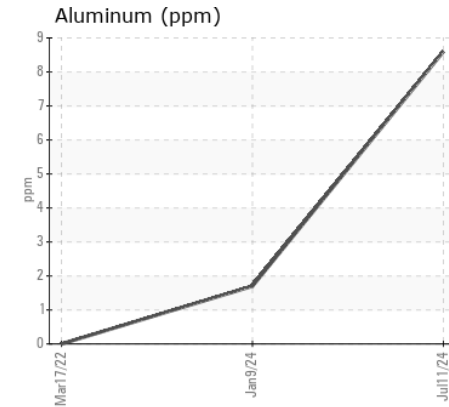
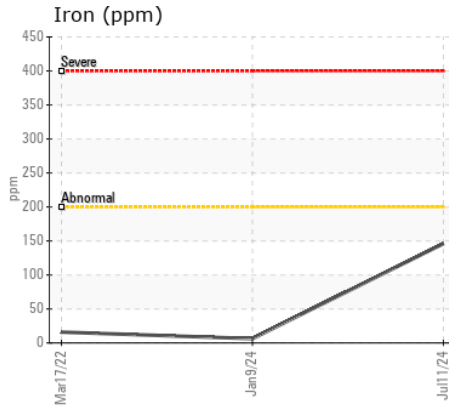
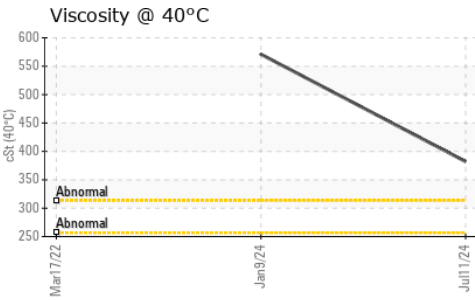
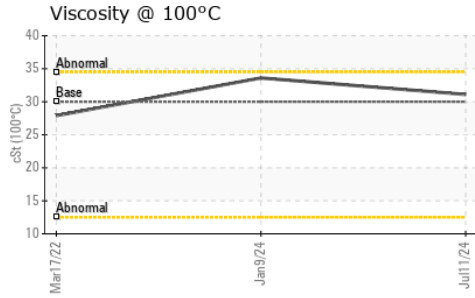
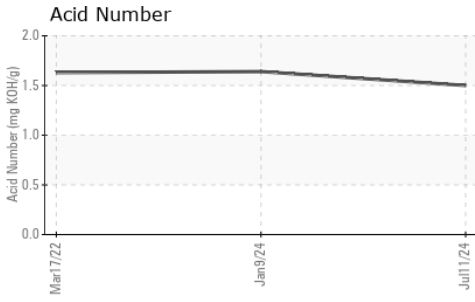
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m		76	34	10
Potassium	ppm	ASTM D5185m	>20	3	3	<1
Water		WC Method	>0.2	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	>0.2	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	0	0
Boron	ppm	ASTM D5185m		260	227	252
Barium	ppm	ASTM D5185m		0	0	1
Molybdenum	ppm	ASTM D5185m		14	7	0
Manganese	ppm	ASTM D5185m		2	<1	<1
Magnesium	ppm	ASTM D5185m		3	1	0
Calcium	ppm	ASTM D5185m		25	12	3
Phosphorus	ppm	ASTM D5185m		1002	1009	827
Zinc	ppm	ASTM D5185m		27	20	1
Sulfur	ppm	ASTM D5185m		20955	20013	13241
Acid Number (AN)	mg KOH/g	ASTM D8045		1.50	1.64	1.63
Visc @ 40°C	cSt	ASTM D445		382	571	---
Visc @ 100°C	cSt	ASTM D445	30	31.1	33.6	27.9
Viscosity Index (VI)	Scale	ASTM D2270	105	115	90	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TR0001675 **Received** : 15 Jul 2024
Lab Number : 06236232 **Tested** : 16 Jul 2024
Unique Number : 11125066 **Diagnosed** : 17 Jul 2024 - Don Baldrige
Test Package : MOB 2 (Additional Tests: KV100, VI)

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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