



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id

76

Component

Middle 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		TR0001339	TR0001357	TR0001151
Sample Date		Client Info		03 May 2024	18 Jan 2024	06 Nov 2023
Machine Age	hrs	Client Info		24753	24114	23801
Oil Age	hrs	Client Info		24753	24114	23801
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	>500	402	352	322
Chromium	ppm	ASTM D5185m	>10	<1	1	<1
Nickel	ppm	ASTM D5185m	>10	<1	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>25	6	3	3
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m	>100	13	15	12
Tin	ppm	ASTM D5185m	>10	2	<1	1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

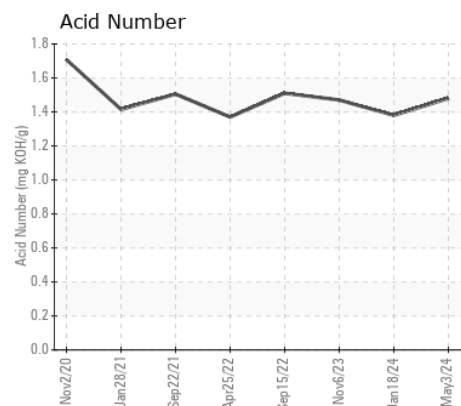
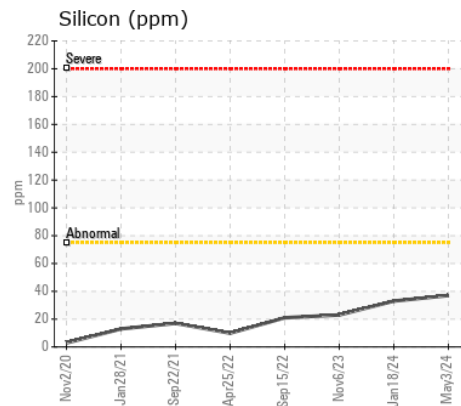
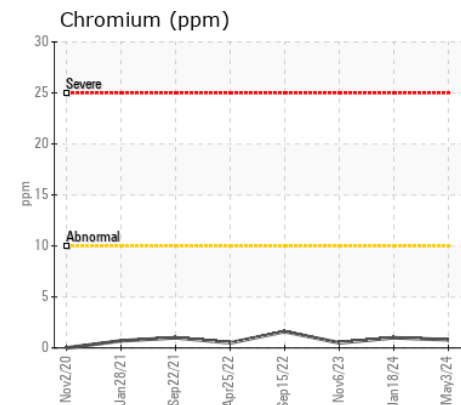
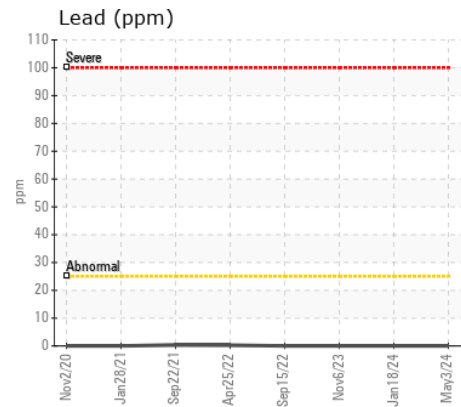
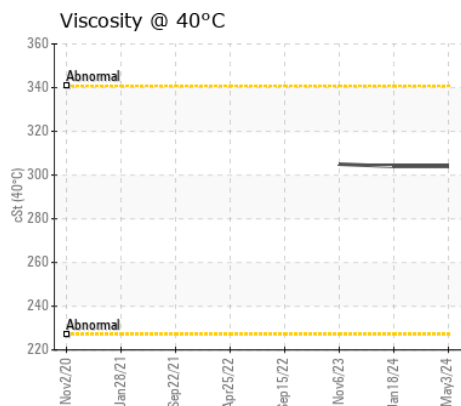
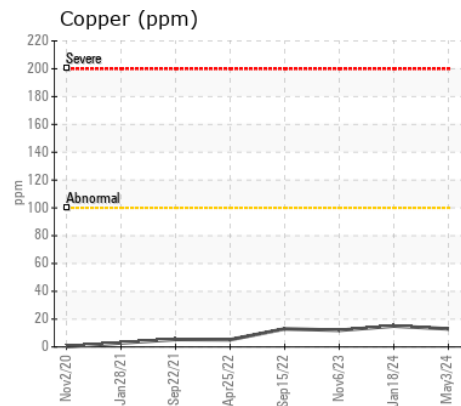
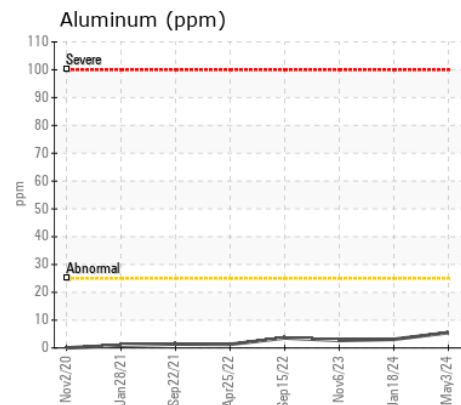
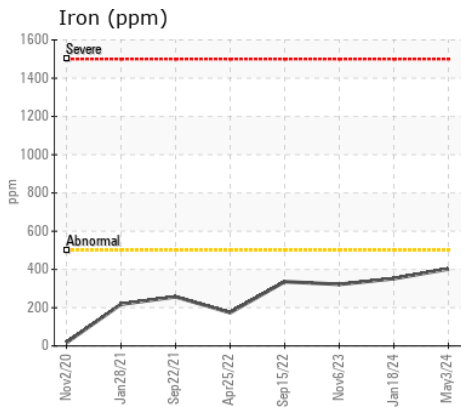
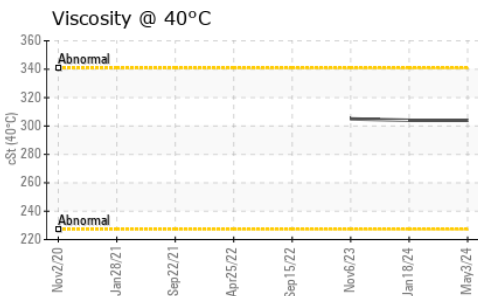
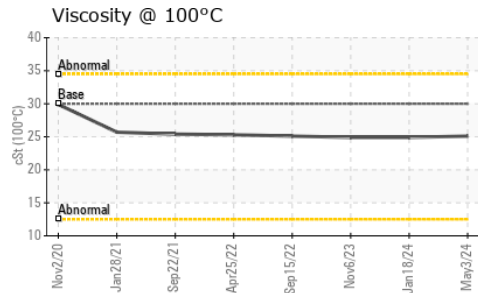
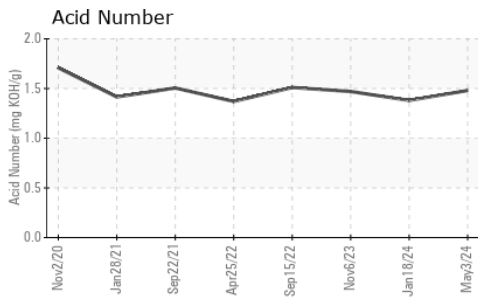
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	37	33	23
Potassium	ppm	ASTM D5185m	>20	3	3	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		4	<1	3
Boron	ppm	ASTM D5185m		171	207	170
Barium	ppm	ASTM D5185m		0	0	2
Molybdenum	ppm	ASTM D5185m		<1	1	<1
Manganese	ppm	ASTM D5185m		5	4	4
Magnesium	ppm	ASTM D5185m		19	17	15
Calcium	ppm	ASTM D5185m		54	45	39
Phosphorus	ppm	ASTM D5185m		1169	1110	940
Zinc	ppm	ASTM D5185m		106	89	82
Sulfur	ppm	ASTM D5185m		25060	22880	18910
Acid Number (AN)	mg KOH/g	ASTM D8045		1.48	1.38	1.47
Visc @ 40°C	cSt	ASTM D445		304	304	305
Visc @ 100°C	cSt	ASTM D445	30	25.1	24.9	24.9
Viscosity Index (VI)	Scale	ASTM D2270	105	106	104	104



Certificate L2367

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

Sample No. : TR0001339

Lab Number : 06174708

Unique Number : 11020761

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

Received : 09 May 2024

Tested : 10 May 2024

Diagnosed : 10 May 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)

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