



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Machine Id
76
 Component
3 Hydraulic System
 Fluid
{not provided} (20 GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

WEAR

The copper level is abnormal. All other component wear rates are normal.

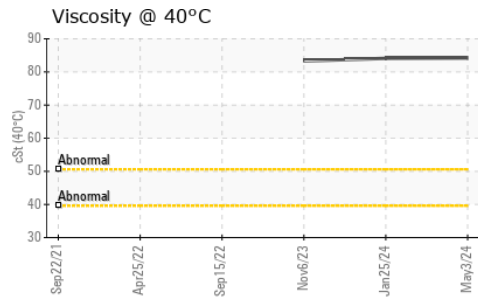
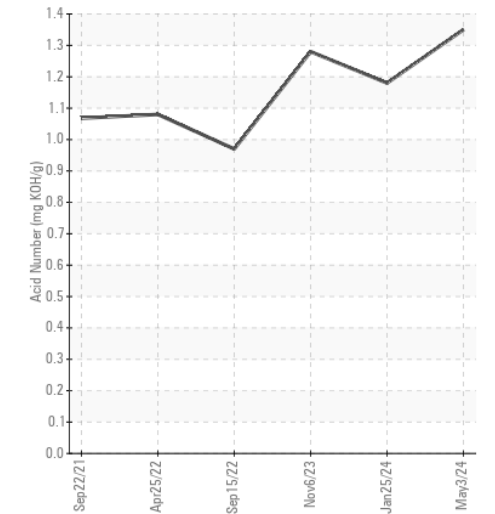
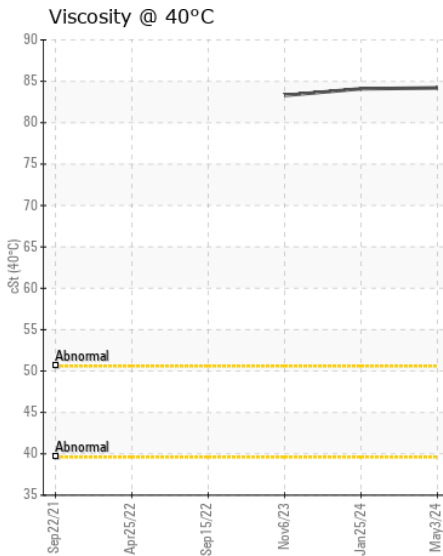
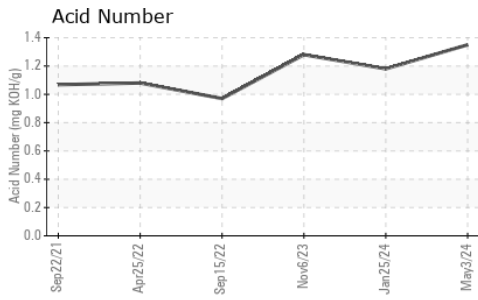
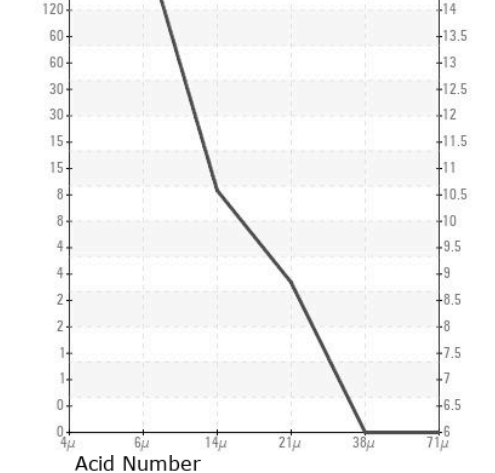
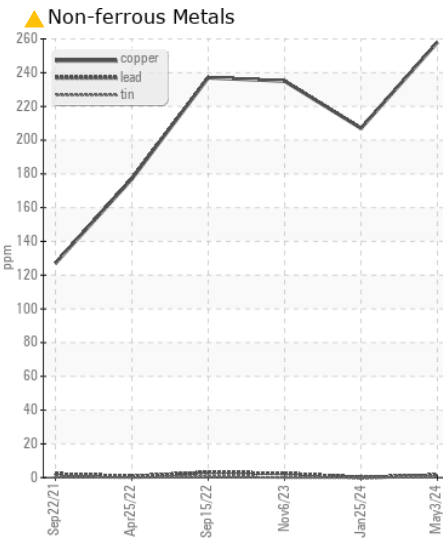
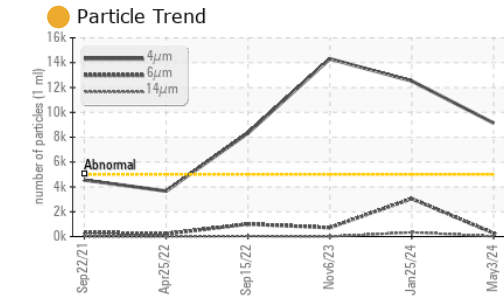
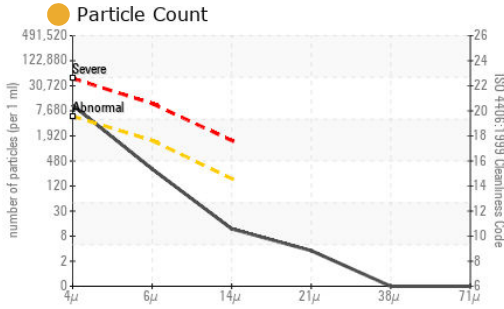
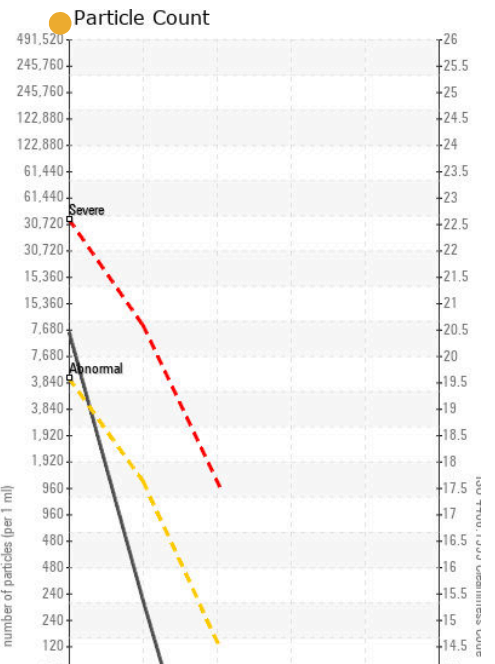
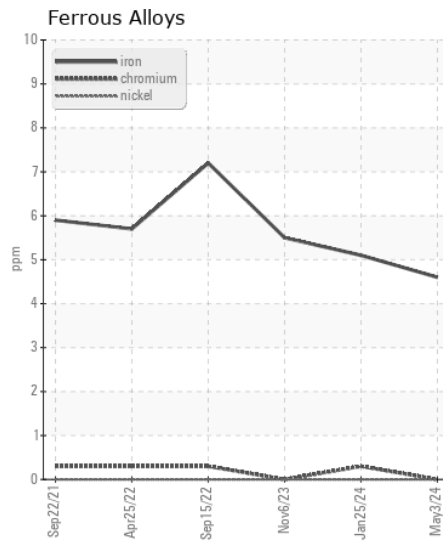
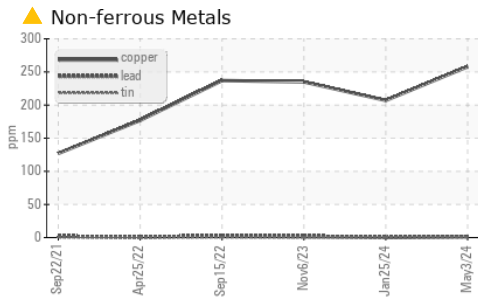
CONTAMINATION

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR0001341	TR0001353	TR0001146
Sample Date		Client Info		03 May 2024	25 Jan 2024	06 Nov 2023
Machine Age	hrs	Client Info		24753	0	22801
Oil Age	hrs	Client Info		24753	0	23801
Filter Age	hrs	Client Info		952	0	0
Oil Changed		Client Info		Not Changd	N/A	Not Changd
Filter Changed		Client Info		Not Changd	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>20	5	5	6
Chromium	ppm	ASTM D5185m	>10	0	<1	0
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	2	2	2
Lead	ppm	ASTM D5185m	>10	1	0	2
Copper	ppm	ASTM D5185m	>75	▲ 258	▲ 207	▲ 235
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
Silicon	ppm	ASTM D5185m	>20	9	8	9
Potassium	ppm	ASTM D5185m	>20	2	2	0
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	● 9137	▲ 12523	▲ 14304
Particles >6µm		ASTM D7647	>1300	272	▲ 3049	718
Particles >14µm		ASTM D7647	>160	10	▲ 339	6
Particles >21µm		ASTM D7647	>40	3	▲ 100	2
Particles >38µm		ASTM D7647	>10	0	3	1
Particles >71µm		ASTM D7647	>3	0	0	1
Oil Cleanliness		ISO 4406 (c)	>19/17/14	● 20/15/10	▲ 21/19/16	▲ 21/17/10
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	>0.1	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m		4	2	3
Boron	ppm	ASTM D5185m		20	20	25
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		3	4	4
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m		29	25	30
Calcium	ppm	ASTM D5185m		2801	2476	2573
Phosphorus	ppm	ASTM D5185m		956	882	932
Zinc	ppm	ASTM D5185m		1173	1085	1136
Sulfur	ppm	ASTM D5185m		4403	3730	3715
Acid Number (AN)	mg KOH/g	ASTM D8045		1.35	1.18	1.28
Visc @ 40°C	cSt	ASTM D445		84.2	84.1	83.3
Visc @ 100°C	cSt	ASTM D445		10.7	10.6	10.7
Viscosity Index (VI)	Scale	ASTM D2270		111	109	113



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TR0001341 **Received** : 09 May 2024
Lab Number : 06174588 **Tested** : 10 May 2024
Unique Number : 11020641 **Diagnosed** : 13 May 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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