



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
75
 Component
Hydraulic System
 Fluid
NOT GIVEN (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 no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

FLUID CONDITION

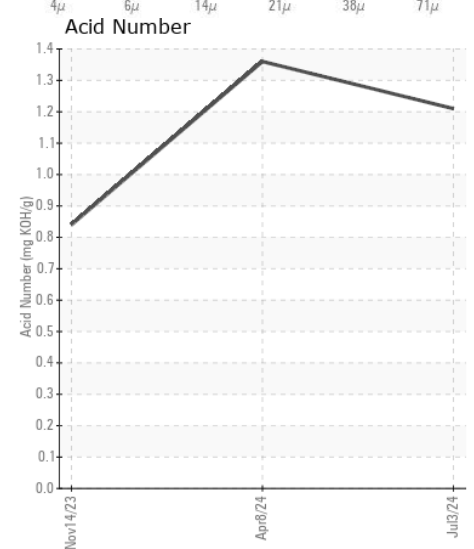
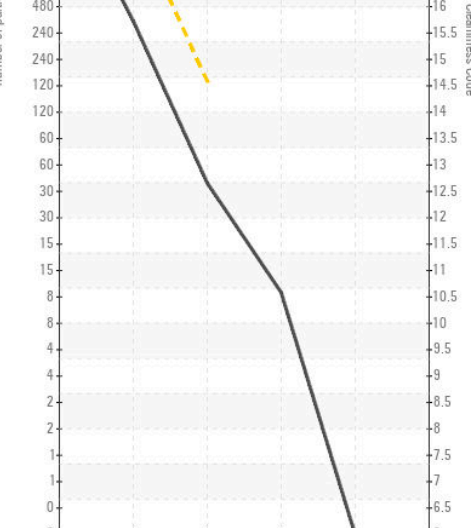
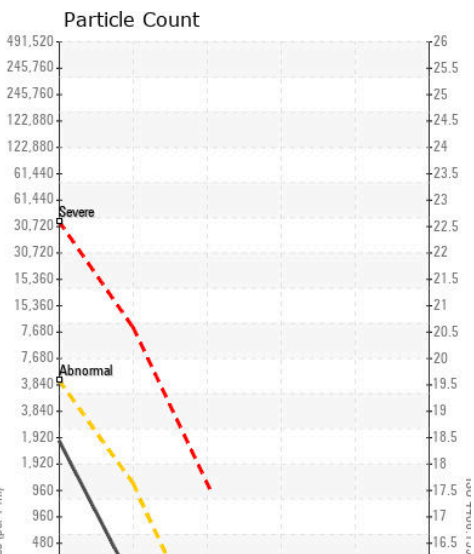
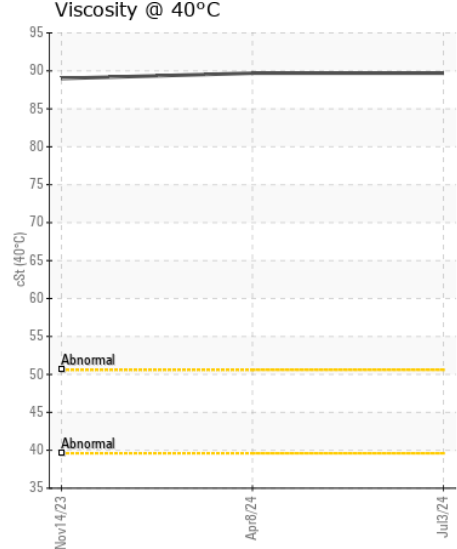
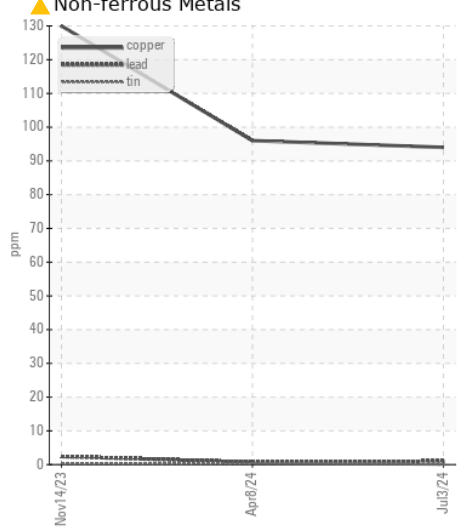
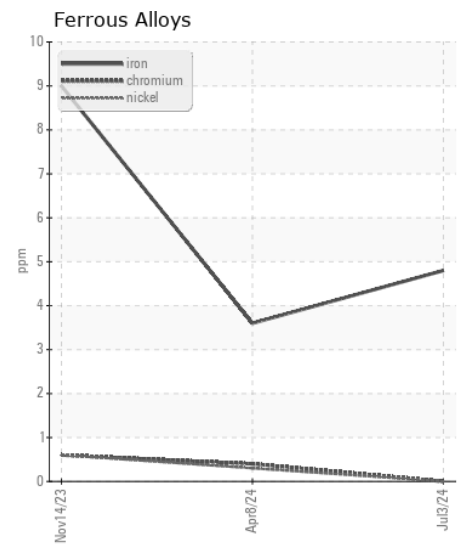
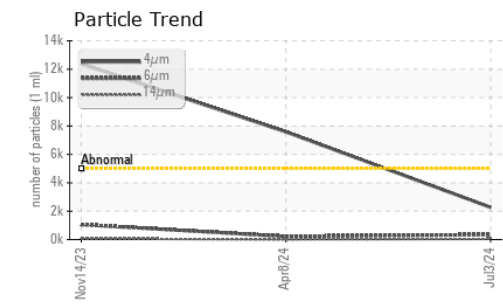
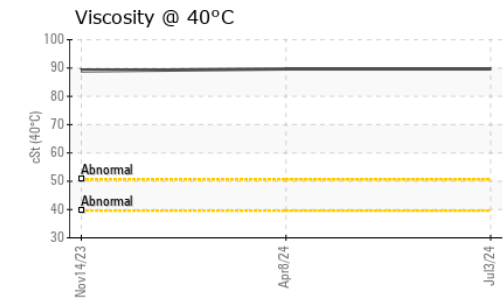
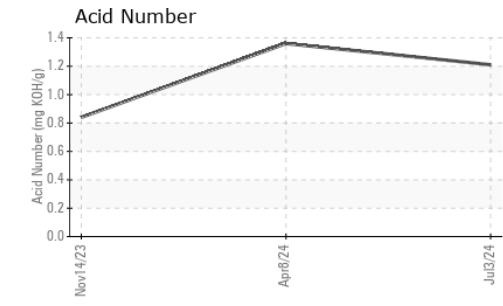
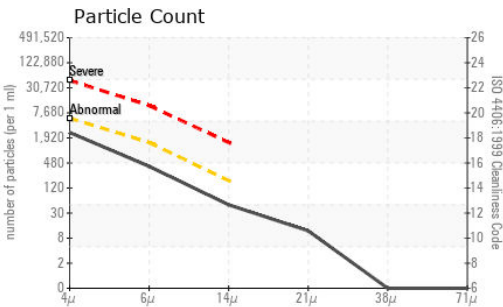
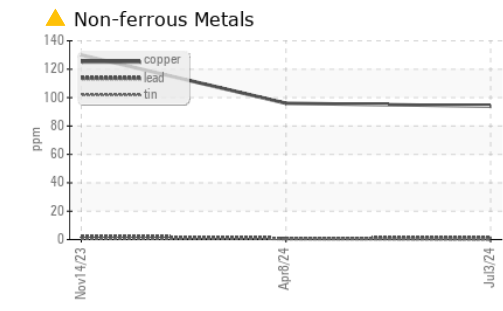
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR0001526	TR0001366	TR0001242
Sample Date		Client Info		03 Jul 2024	08 Apr 2024	14 Nov 2023
Machine Age	hrs	Client Info		20861	20519	19490
Oil Age	hrs	Client Info		20861	20519	19490
Filter Age	hrs	Client Info		342	20519	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Changd	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

Iron	ppm	ASTM D5185m	>20	5	4	9
Chromium	ppm	ASTM D5185m	>10	0	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	2
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	1	2	2
Lead	ppm	ASTM D5185m	>10	1	<1	2
Copper	ppm	ASTM D5185m	>75	▲ 94	▲ 96	▲ 130
Tin	ppm	ASTM D5185m	>10	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

Silicon	ppm	ASTM D5185m	>20	5	9	11
Potassium	ppm	ASTM D5185m	>20	<1	2	<1
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	2267	● 7584	▲ 12367
Particles >6µm		ASTM D7647	>1300	350	223	1056
Particles >14µm		ASTM D7647	>160	42	7	62
Particles >21µm		ASTM D7647	>40	10	2	16
Particles >38µm		ASTM D7647	>10	0	0	1
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/16/13	● 20/15/10	▲ 21/17/13
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	<1	3
Boron	ppm	ASTM D5185m		9	9	13
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		5	6	6
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		28	33	0
Calcium	ppm	ASTM D5185m		2531	2678	2268
Phosphorus	ppm	ASTM D5185m		863	951	829
Zinc	ppm	ASTM D5185m		979	1118	989
Sulfur	ppm	ASTM D5185m		3783	3907	3010
Acid Number (AN)	mg KOH/g	ASTM D8045		1.21	1.36	0.84
Visc @ 40°C	cSt	ASTM D445		89.7	89.7	89.0
Visc @ 100°C	cSt	ASTM D445		11.1	11.0	10.8
Viscosity Index (VI)	Scale	ASTM D2270		110	108	105



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TR0001526 **Received** : 08 Jul 2024
Lab Number : 06230171 **Tested** : 09 Jul 2024
Unique Number : 11113664 **Diagnosed** : 10 Jul 2024 - Jonathan Hester
Test Package : MOB 2 (Additional Tests: KV100, VI)

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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)