



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
TRC LP NG 40
 Component
New (Unused) Oil
 Fluid
TRC LP & NATURAL GAS 40W (--- GAL)

RECOMMENDATION

This is the baseline readout on this new (unused) oil. The fluid is suitable for service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR02628044	---	---
Sample Date		Client Info		05 Apr 2024	---	---
Machine Age	hrs	Client Info		0	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		N/A	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				NORMAL	---	---

WEAR

{not applicable}

Iron	ppm	ASTM D5185(m)		<1	---	---
Chromium	ppm	ASTM D5185(m)		0	---	---
Nickel	ppm	ASTM D5185(m)		<1	---	---
Titanium	ppm	ASTM D5185(m)		0	---	---
Silver	ppm	ASTM D5185(m)		0	---	---
Aluminum	ppm	ASTM D5185(m)		1	---	---
Lead	ppm	ASTM D5185(m)		0	---	---
Copper	ppm	ASTM D5185(m)		0	---	---
Tin	ppm	ASTM D5185(m)		0	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

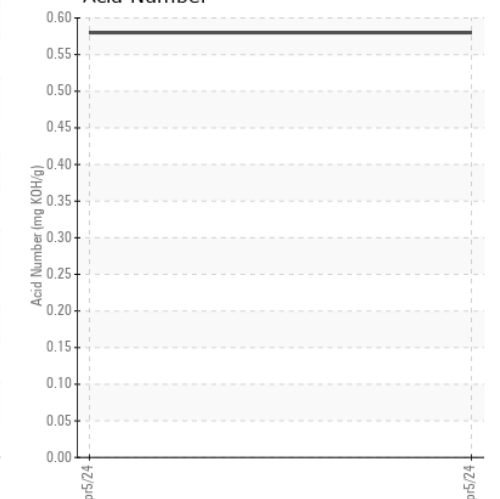
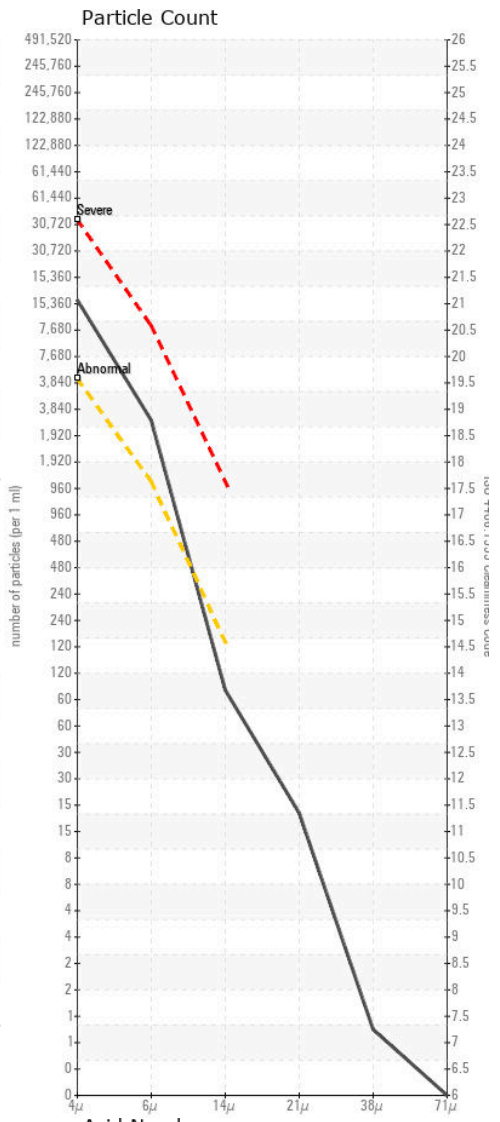
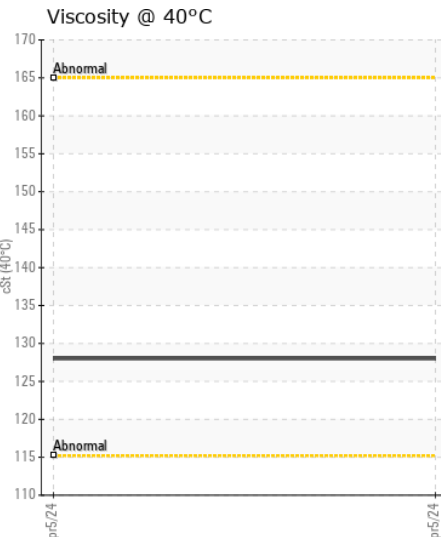
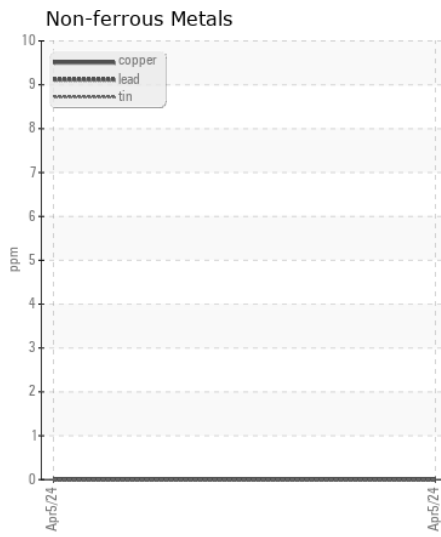
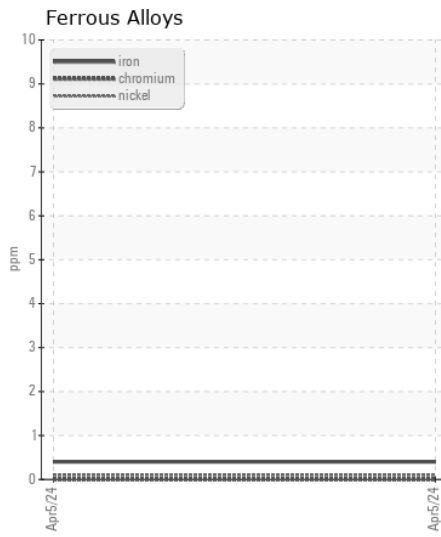
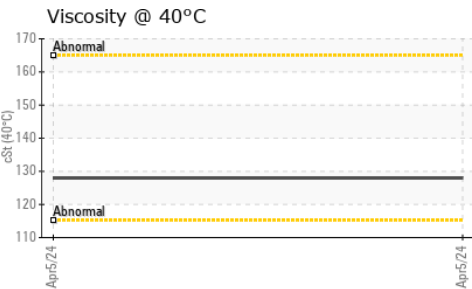
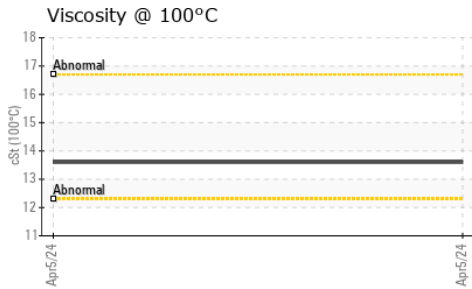
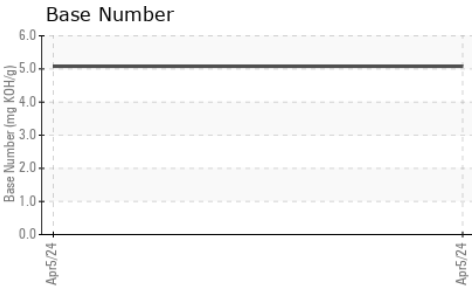
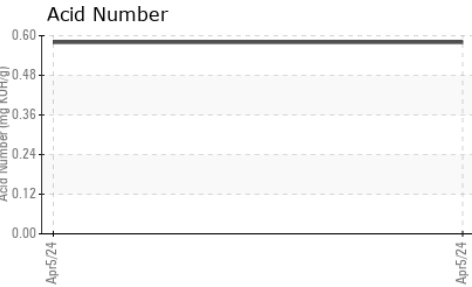
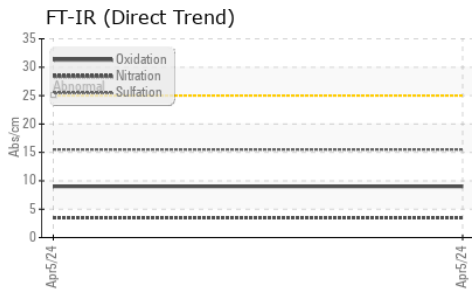
There is no indication of any contamination in the new (unused) oil.

Silicon	ppm	ASTM D5185(m)		2	---	---
Potassium	ppm	ASTM D5185(m)	>20	0	---	---
Water		WC Method		NEG	---	---
Soot %	%	ASTM D7844*		0	---	---
Nitration	Abs/cm	ASTM D7624*		3.5	---	---
Sulfation	Abs/.1mm	ASTM D7415*		15.5	---	---
Particles >4µm		ASTM D7647	>5000	14010	---	---
Particles >6µm		ASTM D7647	>1300	2894	---	---
Particles >14µm		ASTM D7647	>160	85	---	---
Particles >21µm		ASTM D7647	>40	17	---	---
Particles >38µm		ASTM D7647	>10	1	---	---
Particles >71µm		ASTM D7647	>3	0	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	21/19/14	---	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
Emulsified Water	scalar	Visual*		NEG	---	---

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for service.

Sodium	ppm	ASTM D5185(m)		<1	---	---
Boron	ppm	ASTM D5185(m)		1	---	---
Barium	ppm	ASTM D5185(m)		0	---	---
Molybdenum	ppm	ASTM D5185(m)		0	---	---
Manganese	ppm	ASTM D5185(m)		0	---	---
Magnesium	ppm	ASTM D5185(m)		3	---	---
Calcium	ppm	ASTM D5185(m)		1370	---	---
Phosphorus	ppm	ASTM D5185(m)		280	---	---
Zinc	ppm	ASTM D5185(m)		330	---	---
Sulfur	ppm	ASTM D5185(m)		4820	---	---
Oxidation	Abs/.1mm	ASTM D7414*		9.0	---	---
Acid Number (AN)	mg KOH/g	ASTM D974*		0.58	---	---
Base Number (BN)	mg KOH/g	ASTM D2896*		5.08	---	---
i-pH	Scale 0-14	ASTM D7946*		7.08	---	---
Visc @ 40°C	cSt	ASTM D7279(m)		128	---	---
Visc @ 100°C	cSt	ASTM D7279(m)		13.6	---	---
Viscosity Index (VI)	Scale	ASTM D2270*		101	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : TR02628044 **Received** : 11 Apr 2024
Lab Number : 02628044 **Tested** : 11 Apr 2024
Unique Number : 5761176 **Diagnosed** : 11 Apr 2024 - Kevin Marson
Test Package : MOB 2 (Additional Tests: FT-IR, i-pH, ICP-NewOil, KV100, PrtCount, TAN Man, TBN, VI)

TEXAS REFINERY CORP
 960 HOME ST W
 MOOSE JAW, SK
 CA S6H 4R8
 Contact: Al Mann

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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