



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
TRC MOLY XL PRO SPEC III 15W40

Component
New (Unused) Oil

Fluid
TRC MOLY XL PRO-SPEC III SYNTHETIC15W40 (--- QTS)

RECOMMENDATION

This is a baseline read-out on the submitted sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR04071760	---	---
Sample Date		Client Info		21 Sep 2016	---	---
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

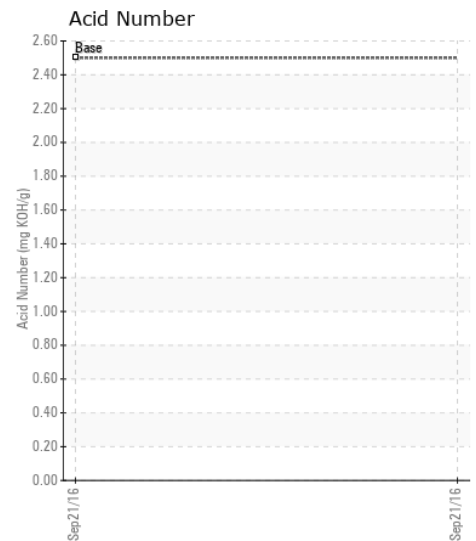
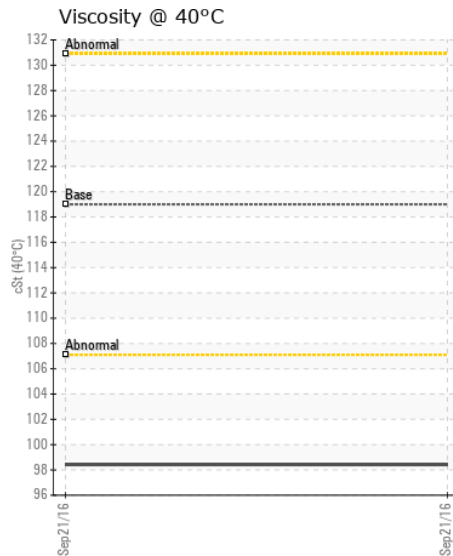
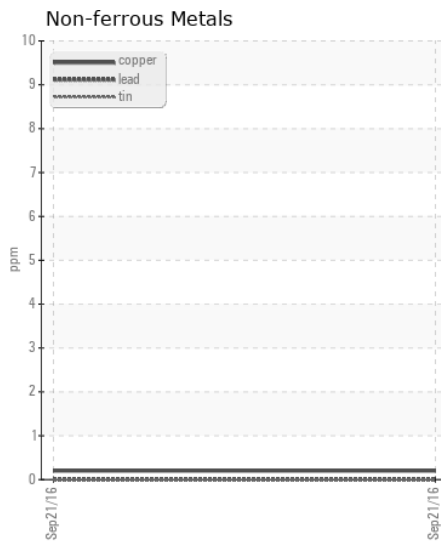
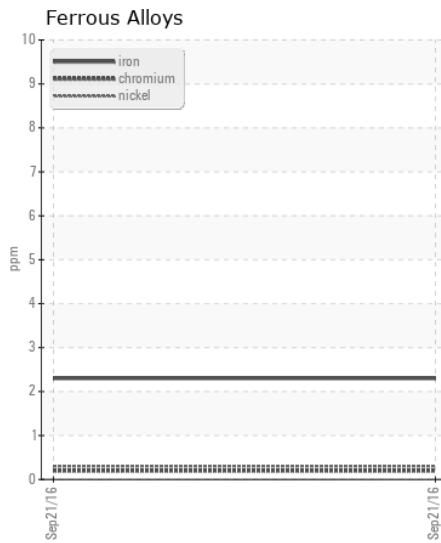
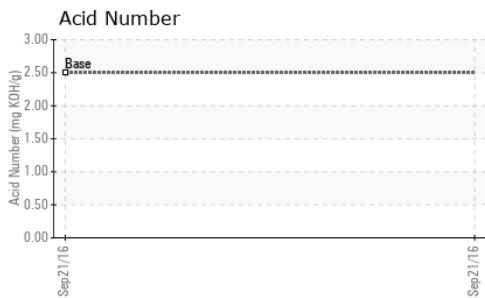
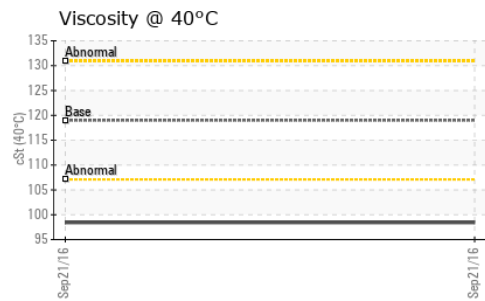
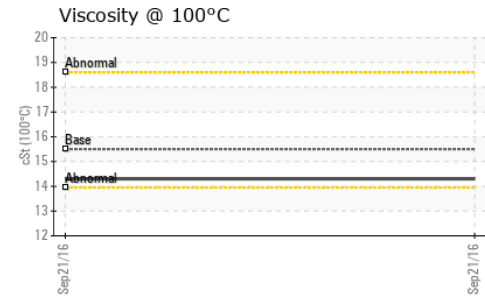
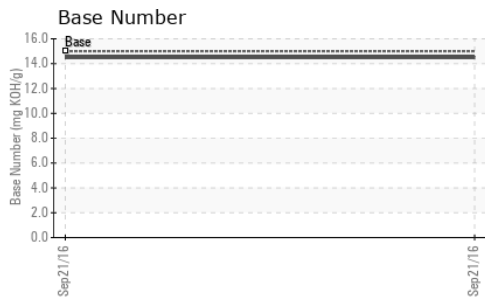
Iron	ppm	ASTM D5185m		2	---	---
Chromium	ppm	ASTM D5185m		<1	---	---
Nickel	ppm	ASTM D5185m		<1	---	---
Titanium	ppm	ASTM D5185m		<1	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m		4	---	---
Lead	ppm	ASTM D5185m		0	---	---
Copper	ppm	ASTM D5185m		<1	---	---
Tin	ppm	ASTM D5185m		0	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

Silicon	ppm	ASTM D5185m		9	---	---
Potassium	ppm	ASTM D5185m	>20	17	---	---
Water		WC Method		NEG	---	---
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

Sodium	ppm	ASTM D5185m		4	---	---
Boron	ppm	ASTM D5185m		147	---	---
Barium	ppm	ASTM D5185m		0	---	---
Molybdenum	ppm	ASTM D5185m		158	---	---
Manganese	ppm	ASTM D5185m		<1	---	---
Magnesium	ppm	ASTM D5185m		717	---	---
Calcium	ppm	ASTM D5185m	4500	3225	---	---
Phosphorus	ppm	ASTM D5185m		1144	---	---
Zinc	ppm	ASTM D5185m	1400	1247	---	---
Sulfur	ppm	ASTM D5185m		4136	---	---
Base Number (BN)	mg KOH/g	ASTM D2896	15	14.5	---	---
Visc @ 40°C	cSt	ASTM D445	119	98.43	---	---
Visc @ 100°C	cSt	ASTM D445	15.5	14.3	---	---
Viscosity Index (VI)	Scale	ASTM D2270	150	149	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TR04071760
Lab Number : 04071760
Unique Number : 7542341
Test Package : MOB 2 (Additional Tests: KV100, PrtCount, TBN, VI)

Received : 26 Sep 2016
Tested : 28 Sep 2016
Diagnosed : 28 Sep 2016 - Jonathan Hester

DONALD PERCY
 P.O. BOX 970
 BELMONT, NH
 US 03220

Contact: DONALD PERCY
 DONJPERCY@ICLOUD.COM

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)

T:
F: