



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
TRC MOLY XL PRO SPEC IV 15W40 9/21/16
 Component
New (Unused) Oil
 Fluid
TRC MOLY XL PRO-SPEC IV 15W40 (--- QTS)

RECOMMENDATION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR04071761	---	---
Sample Date		Client Info		26 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

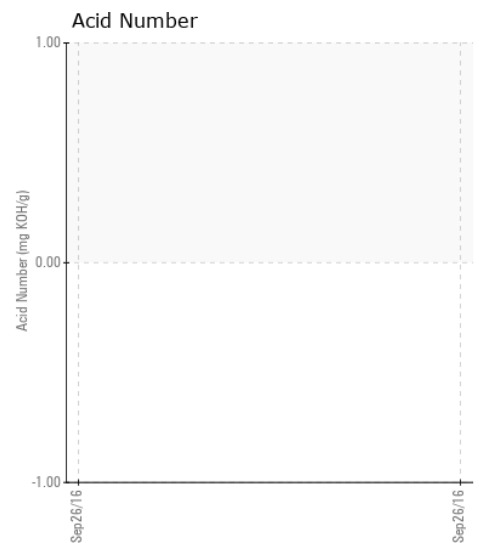
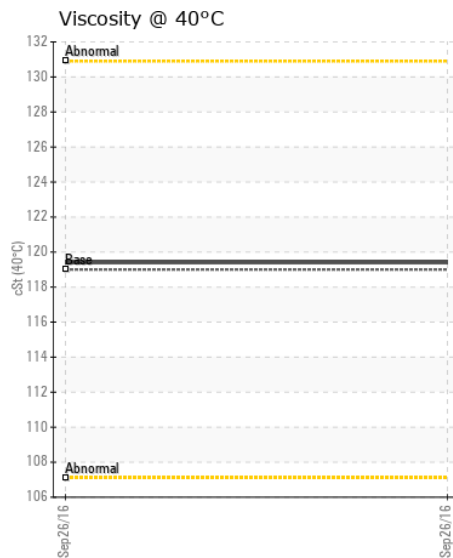
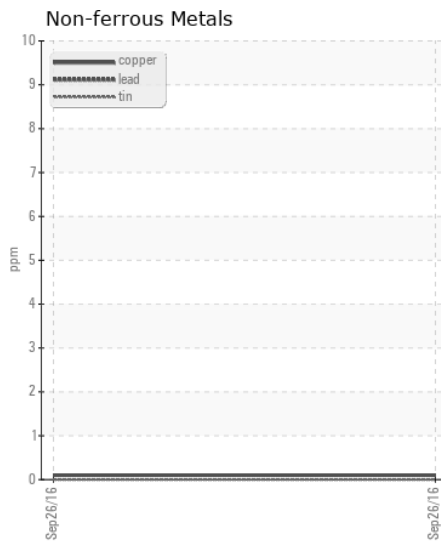
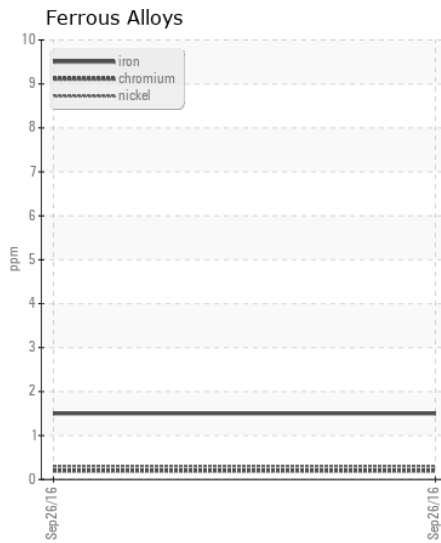
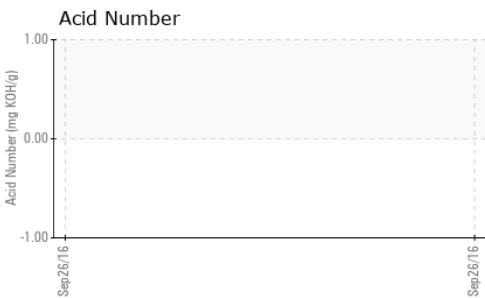
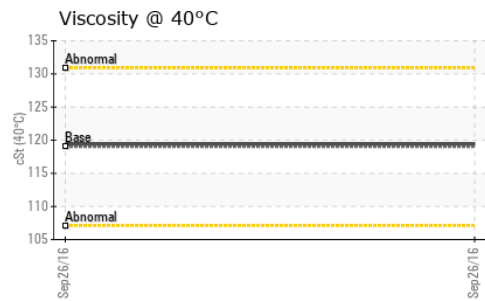
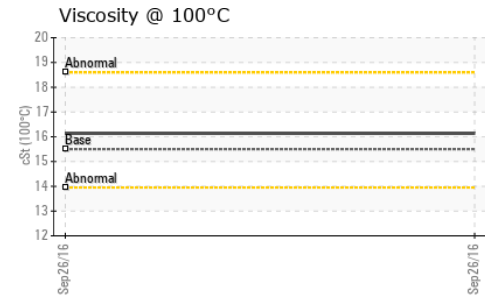
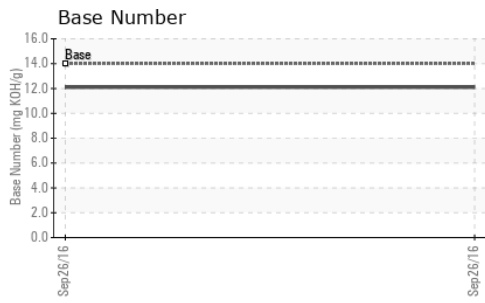
Iron	ppm	ASTM D5185m		2	---	---
Chromium	ppm	ASTM D5185m		<1	---	---
Nickel	ppm	ASTM D5185m		<1	---	---
Titanium	ppm	ASTM D5185m		<1	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m		5	---	---
Lead	ppm	ASTM D5185m		<1	---	---
Copper	ppm	ASTM D5185m		<1	---	---
Tin	ppm	ASTM D5185m		0	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

Silicon	ppm	ASTM D5185m		11	---	---
Potassium	ppm	ASTM D5185m	>20	0	---	---
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		0	---	---
Barium	ppm	ASTM D5185m		0	---	---
Molybdenum	ppm	ASTM D5185m		200	---	---
Manganese	ppm	ASTM D5185m		<1	---	---
Magnesium	ppm	ASTM D5185m		942	---	---
Calcium	ppm	ASTM D5185m	1300	1776	---	---
Phosphorus	ppm	ASTM D5185m		1247	---	---
Zinc	ppm	ASTM D5185m	1300	1362	---	---
Sulfur	ppm	ASTM D5185m		4030	---	---
Base Number (BN)	mg KOH/g	ASTM D2896	14	12.1	---	---
Visc @ 40°C	cSt	ASTM D445	119	119.4	---	---
Visc @ 100°C	cSt	ASTM D445	15.5	16.14	---	---
Viscosity Index (VI)	Scale	ASTM D2270	150	144	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TR04071761
Lab Number : 04071761
Unique Number : 7542342
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: