



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	MARGINAL
FLUID CONDITION	NORMAL

Machine Id
HUSTLER HUSTLER

Component
Gasoline Engine

Fluid
TRC MOLY XL PROSPEC III 10W30 (2 QTS)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR03793939	---	---
Sample Date		Client Info		01 May 2015	---	---
Machine Age	hrs	Client Info		542	---	---
Oil Age	hrs	Client Info		110	---	---
Filter Age	hrs	Client Info		110	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				MARGINAL	---	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>150	101	---	---
Chromium	ppm	ASTM D5185m	>20	<1	---	---
Nickel	ppm	ASTM D5185m	>5	<1	---	---
Titanium	ppm	ASTM D5185m		<1	---	---
Silver	ppm	ASTM D5185m	>2	0	---	---
Aluminum	ppm	ASTM D5185m	>40	13	---	---
Lead	ppm	ASTM D5185m	>50	<1	---	---
Copper	ppm	ASTM D5185m	>155	2	---	---
Tin	ppm	ASTM D5185m	>10	0	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

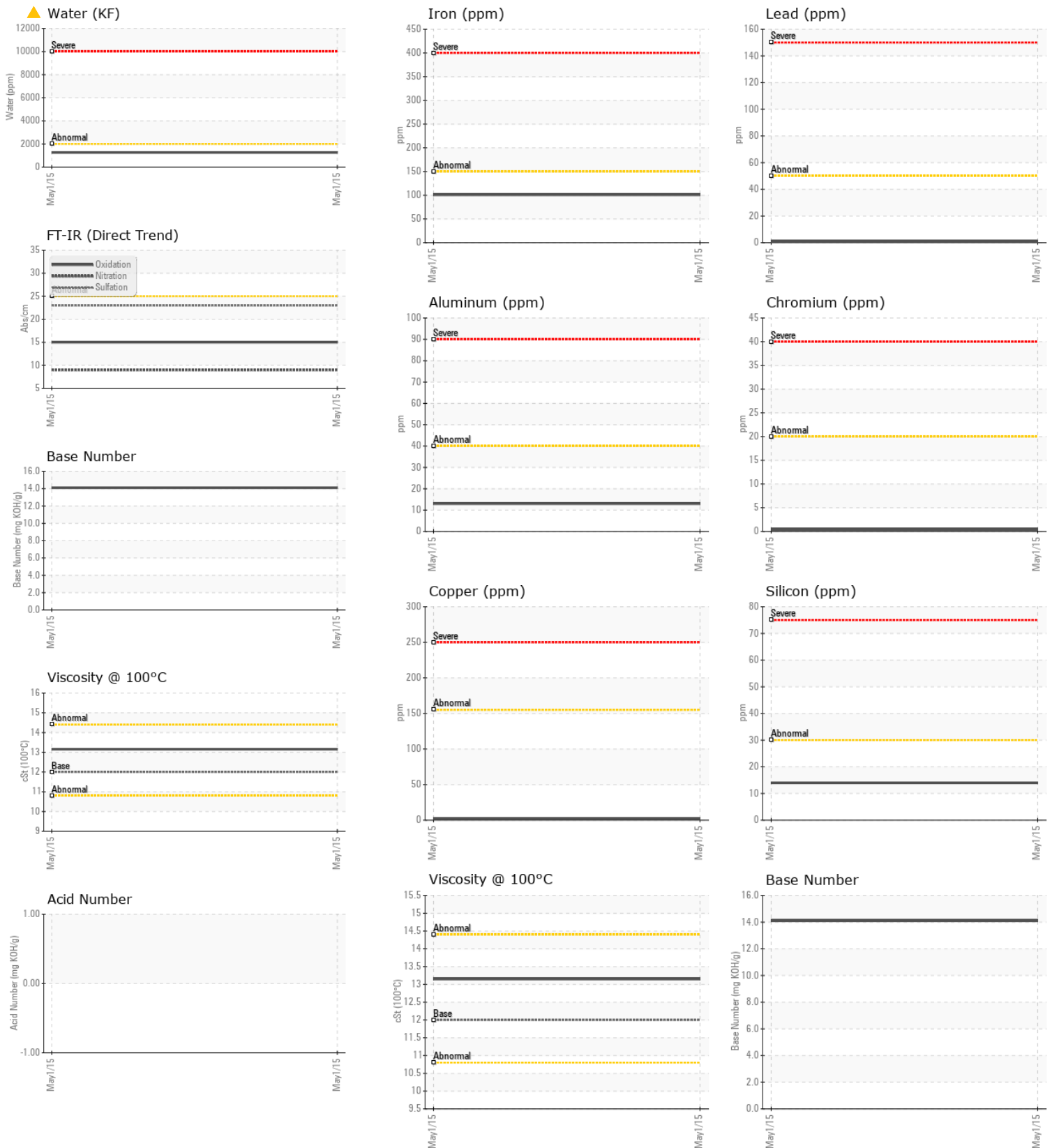
There is a trace of moisture present in the oil.

Silicon	ppm	ASTM D5185m	>30	14	---	---
Potassium	ppm	ASTM D5185m	>20	6	---	---
Fuel		WC Method	>4.0	<1.0	---	---
Water	%	ASTM D6304	>0.2	▲ 0.126	---	---
ppm Water	ppm	ASTM D6304	>2000	▲ 1260	---	---
Glycol		WC Method		NEG	---	---
Soot %	%	*ASTM D7844		0	---	---
Nitration	Abs/cm	*ASTM D7624		9.	---	---
Sulfation	Abs/.1mm	*ASTM D7415		23.	---	---
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	>0.2	NEG	---	---

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>400	6	---	---
Boron	ppm	ASTM D5185m		188	---	---
Barium	ppm	ASTM D5185m		0	---	---
Molybdenum	ppm	ASTM D5185m		226	---	---
Manganese	ppm	ASTM D5185m		1	---	---
Magnesium	ppm	ASTM D5185m		525	---	---
Calcium	ppm	ASTM D5185m		4018	---	---
Phosphorus	ppm	ASTM D5185m		852	---	---
Zinc	ppm	ASTM D5185m		1131	---	---
Sulfur	ppm	ASTM D5185m		4115	---	---
Oxidation	Abs/.1mm	*ASTM D7414		15.	---	---
Base Number (BN)	mg KOH/g	ASTM D2896		14.1	---	---
Visc @ 100°C	cSt	ASTM D445	12.0	13.15	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TR03793939
Lab Number : 03793939
Unique Number : 7091966
Test Package : MOB 2 (Additional Tests: KF, TAN Man)

Received : 31 Jul 2015
Tested : 03 Aug 2015
Diagnosed : 03 Aug 2015 - Jonathan Hester

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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)

T:
F: