



TRAAP

Texas Refinery Advanced Analysis Program

# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**MOBIL DELVAC EXTREME SYNTHETIC BLEND 15W40**

Component  
**New (Unused) Oil**  
Fluid  
**{not provided} (--- GAL)**

## RECOMMENDATION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR04609986	---	---
Sample Date		Client Info		11 Dec 2018	---	---
Machine Age	mls	Client Info		0	---	---
Oil Age	mls	Client Info		0	---	---
Filter Age	mls	Client Info		0	---	---
Oil Changed		Client Info		N/A	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				NORMAL	---	---

## WEAR

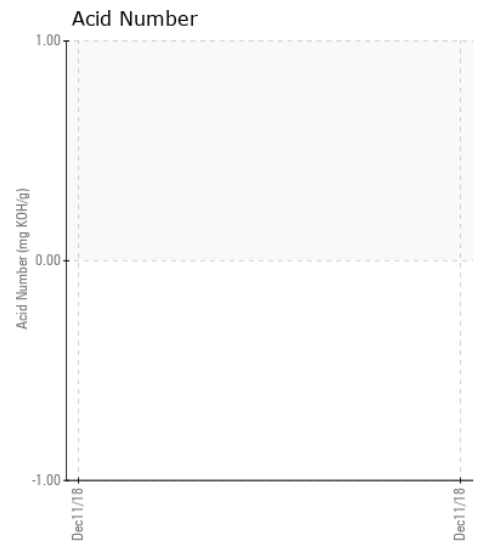
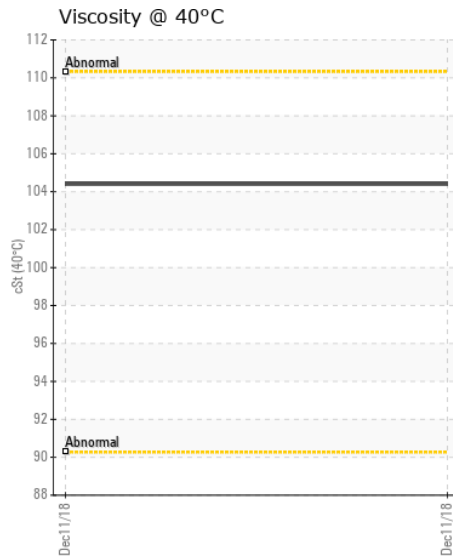
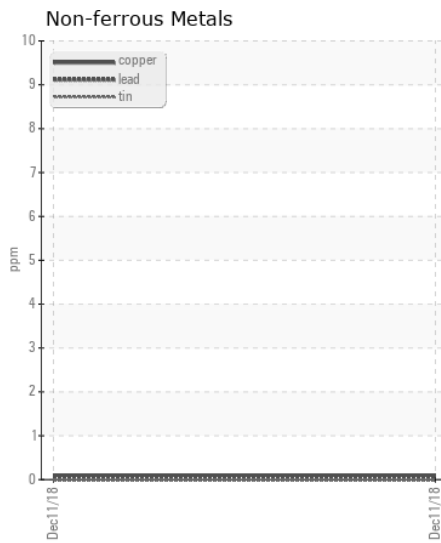
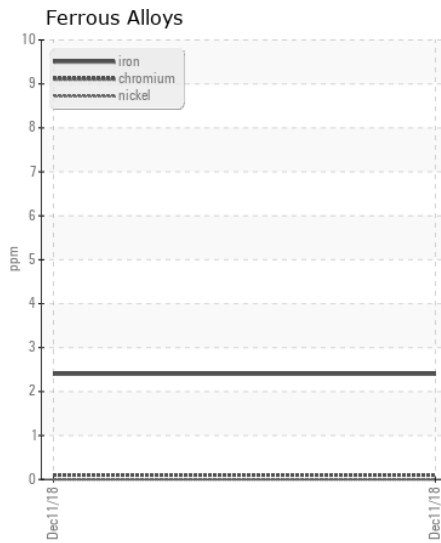
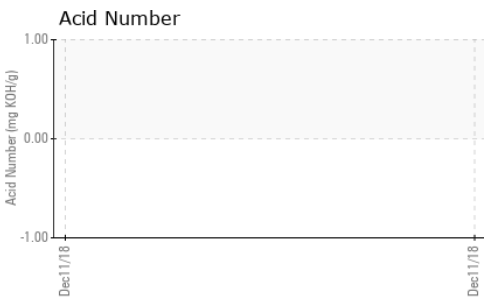
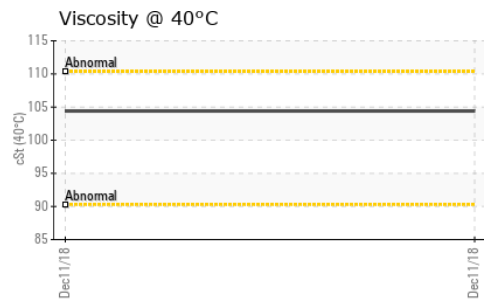
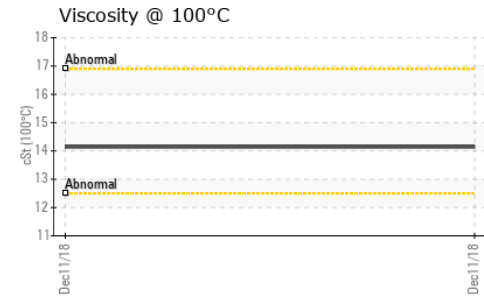
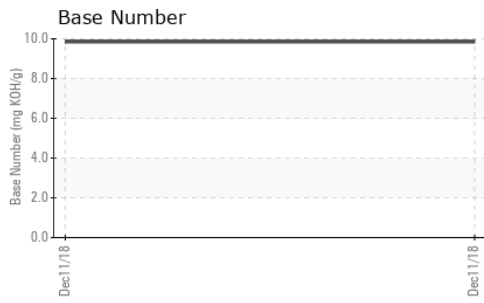
Iron	ppm	ASTM D5185m		2	---	---
Chromium	ppm	ASTM D5185m		<1	---	---
Nickel	ppm	ASTM D5185m		0	---	---
Titanium	ppm	ASTM D5185m		<1	---	---
Silver	ppm	ASTM D5185m		<1	---	---
Aluminum	ppm	ASTM D5185m		2	---	---
Lead	ppm	ASTM D5185m		0	---	---
Copper	ppm	ASTM D5185m		<1	---	---
Tin	ppm	ASTM D5185m		0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

## CONTAMINATION

Silicon	ppm	ASTM D5185m		15	---	---
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		108	---	---
Barium	ppm	ASTM D5185m		<1	---	---
Molybdenum	ppm	ASTM D5185m		83	---	---
Manganese	ppm	ASTM D5185m		<1	---	---
Magnesium	ppm	ASTM D5185m		840	---	---
Calcium	ppm	ASTM D5185m		2791	---	---
Phosphorus	ppm	ASTM D5185m		1687	---	---
Zinc	ppm	ASTM D5185m		2007	---	---
Sulfur	ppm	ASTM D5185m		4709	---	---
Base Number (BN)	mg KOH/g	ASTM D2896		9.85	---	---
Visc @ 40°C	cSt	ASTM D445		104.4	---	---
Visc @ 100°C	cSt	ASTM D445		14.14	---	---
Viscosity Index (VI)	Scale	ASTM D2270		137	---	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TR04609986 **Received** : 12 Dec 2018  
**Lab Number** : 04609986 **Tested** : 14 Dec 2018  
**Unique Number** : 8429007 **Diagnosed** : 14 Dec 2018 - Jonathan Hester  
**Test Package** : MOB 2 ( Additional Tests: FT-IR, KV100, PrtCount, TBN, VI )

**SPOKANE PRODUCE INC**  
 1996 S GEIGER BLVD  
 SPOKANE, WA  
 US 99224  
 Contact: SERVICE MANAGER

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: