



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
POWER SCREEN CHIEFTAN 1400 THE POWER SCREEN

Component
Diesel Engine

Fluid
TRC MOLY XL PRO-SPEC IV 15W40 (5 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR03669127	---	---
Sample Date		Client Info		15 Jan 2015	---	---
Machine Age	hrs	Client Info		10265	---	---
Oil Age	hrs	Client Info		1200	---	---
Filter Age	hrs	Client Info		1200	---	---
Oil Changed		Client Info		Not Chngd	---	---
Filter Changed		Client Info		Not Chngd	---	---
Sample Status				NORMAL	---	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>150	52	---	---
Chromium	ppm	ASTM D5185m	>20	3	---	---
Nickel	ppm	ASTM D5185m	>2	<1	---	---
Titanium	ppm	ASTM D5185m	>2	<1	---	---
Silver	ppm	ASTM D5185m	>2	0	---	---
Aluminum	ppm	ASTM D5185m	>20	11	---	---
Lead	ppm	ASTM D5185m	>40	11	---	---
Copper	ppm	ASTM D5185m	>30	12	---	---
Tin	ppm	ASTM D5185m	>15	0	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

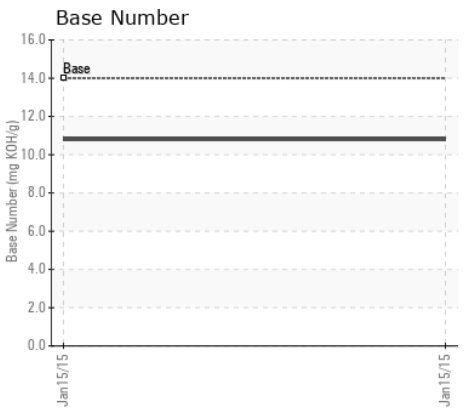
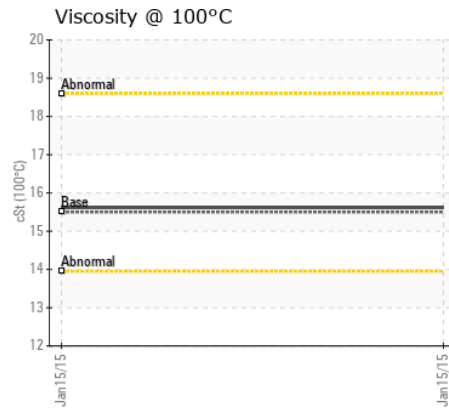
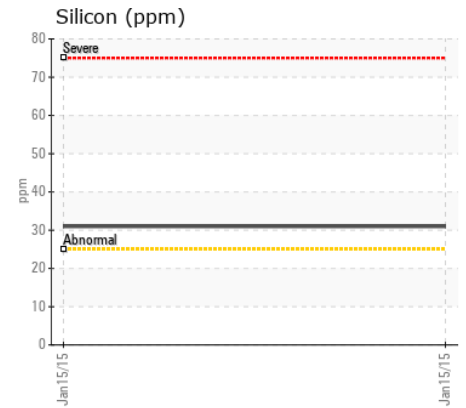
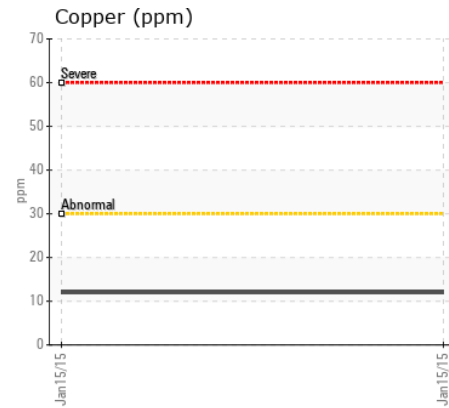
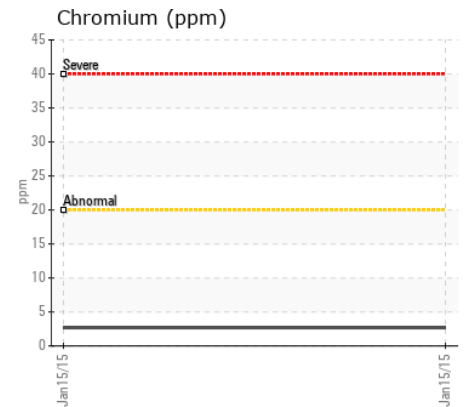
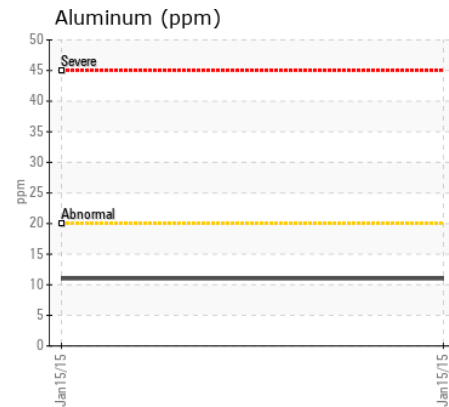
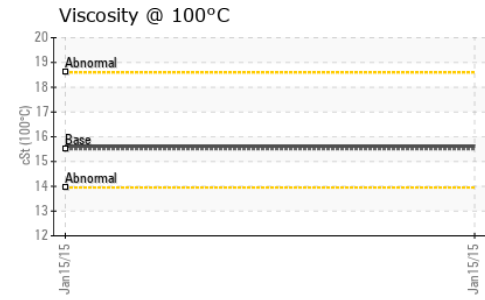
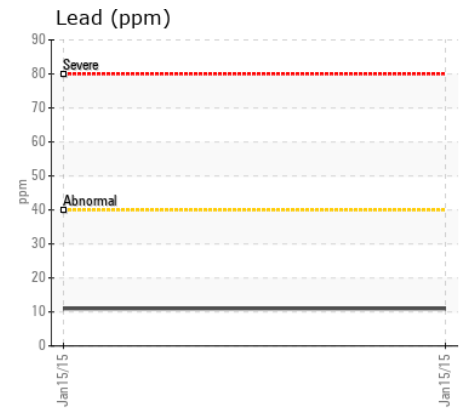
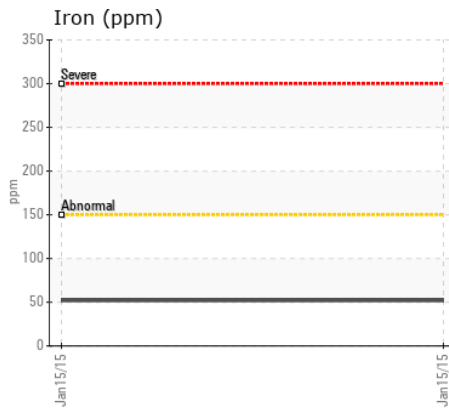
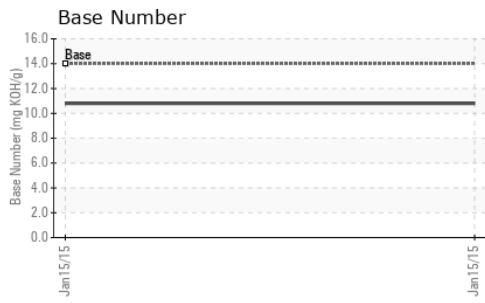
There is no indication of any contamination in the component.

Silicon	ppm	ASTM D5185m	>25	31	---	---
Potassium	ppm	ASTM D5185m	>20	0	---	---
Fuel		WC Method	>5	<1.0	---	---
Water		WC Method	>0.2	NEG	---	---
Glycol		WC Method		NEG	---	---
Soot %	%	*ASTM D7844	>3	1.2	---	---
Nitration	Abs/cm	*ASTM D7624		8.	---	---
Sulfation	Abs/.1mm	*ASTM D7415		20.	---	---
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		6	---	---
Boron	ppm	ASTM D5185m		<1	---	---
Barium	ppm	ASTM D5185m		0	---	---
Molybdenum	ppm	ASTM D5185m		162	---	---
Manganese	ppm	ASTM D5185m		<1	---	---
Magnesium	ppm	ASTM D5185m		847	---	---
Calcium	ppm	ASTM D5185m	1300	2153	---	---
Phosphorus	ppm	ASTM D5185m		1268	---	---
Zinc	ppm	ASTM D5185m	1300	1468	---	---
Sulfur	ppm	ASTM D5185m		3485	---	---
Oxidation	Abs/.1mm	*ASTM D7414		11.	---	---
Base Number (BN)	mg KOH/g	ASTM D2896	14	10.8	---	---
Visc @ 100°C	cSt	ASTM D445	15.5	15.62	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TR03669127
Lab Number : 03669127
Unique Number : 6887114
Test Package : MOB 2
Received : 23 Jan 2015
Tested : 26 Jan 2015
Diagnosed : 26 Jan 2015 - Jonathan Hester

NORTHFORK EXCAVATING
 13335 TONQUIN RD
 SHERWOOD, OR
 US 97140
 Contact: NATHAN BYRD

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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F: