



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
FORD VAN
 Component
Gasoline
 Fluid
TRC MOLY XL PRO-SPEC IV HD SYN 5W40 (1 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR06035399	---	---
Sample Date		Client Info		27 Nov 2023	---	---
Machine Age	mls	Client Info		13666	---	---
Oil Age	mls	Client Info		7296	---	---
Filter Age	mls	Client Info		7296	---	---
Oil Changed		Client Info		Not Changd	---	---
Filter Changed		Client Info		Not Changd	---	---
Sample Status				NORMAL	---	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m		25	---	---
Chromium	ppm	ASTM D5185m		<1	---	---
Nickel	ppm	ASTM D5185m		<1	---	---
Titanium	ppm	ASTM D5185m		<1	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m		9	---	---
Lead	ppm	ASTM D5185m		<1	---	---
Copper	ppm	ASTM D5185m		20	---	---
Tin	ppm	ASTM D5185m		<1	---	---
Vanadium	ppm	ASTM D5185m		<1	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

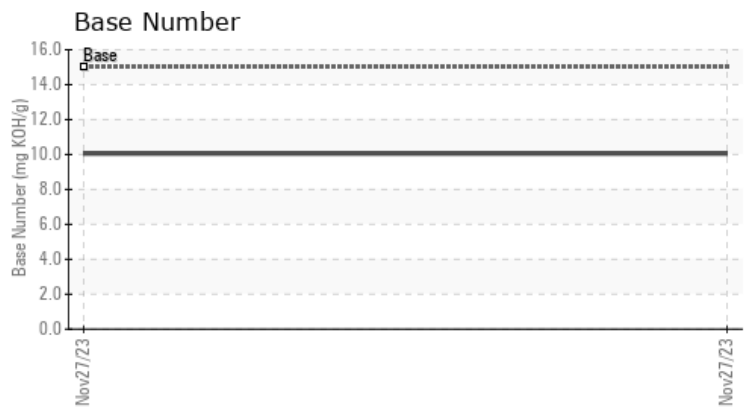
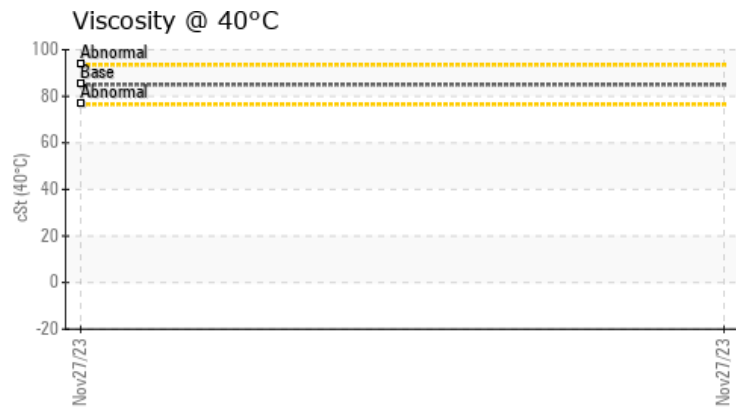
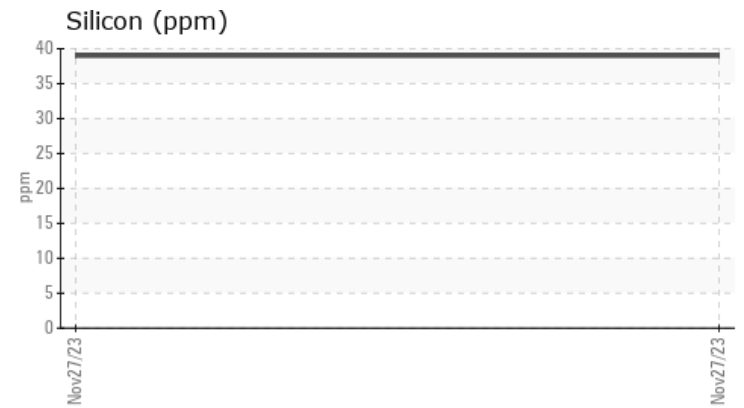
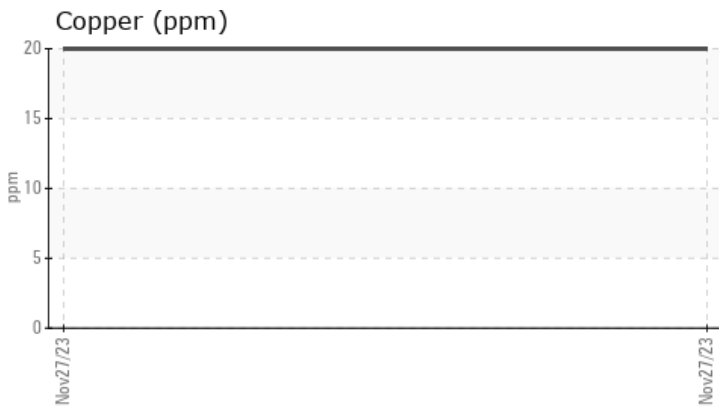
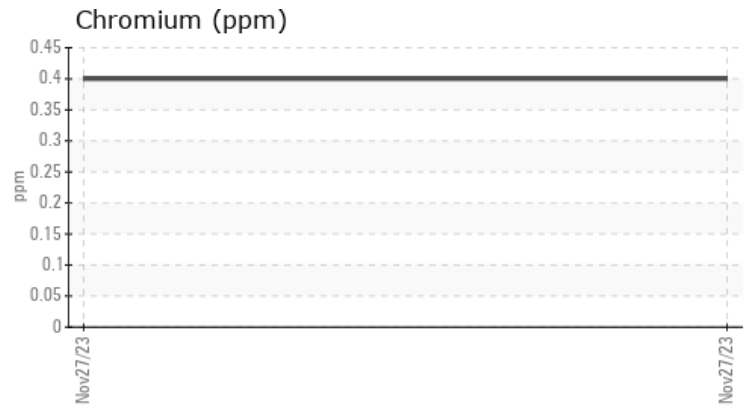
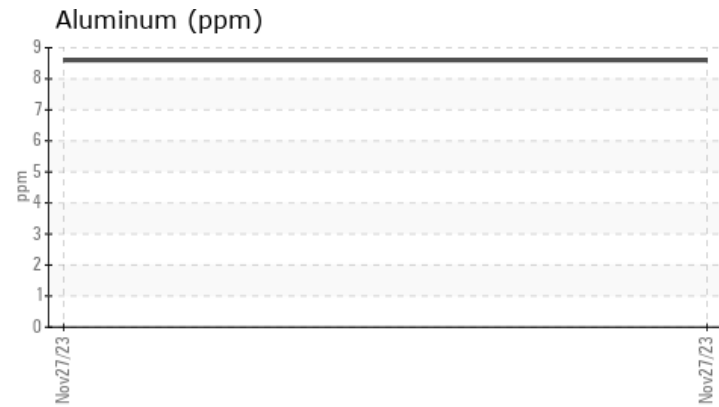
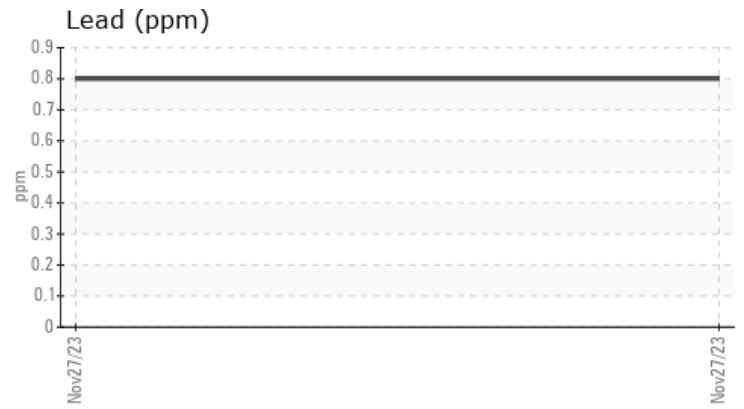
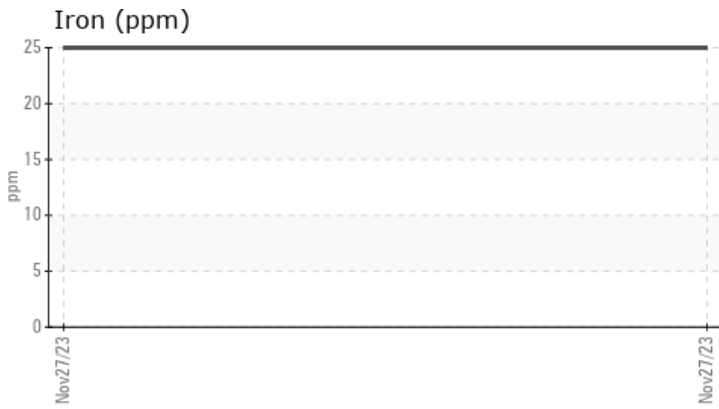
There is no indication of any contamination in the gasoline.

Silicon	ppm	ASTM D5185m		39	---	---
Potassium	ppm	ASTM D5185m	>20	6	---	---
Soot %	%	*ASTM D7844		0.1	---	---
Nitration	Abs/cm	*ASTM D7624		19.0	---	---
Sulfation	Abs/.1mm	*ASTM D7415		27.6	---	---
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

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

Sodium	ppm	ASTM D5185m		4	---	---
Boron	ppm	ASTM D5185m		9	---	---
Barium	ppm	ASTM D5185m		0	---	---
Molybdenum	ppm	ASTM D5185m		112	---	---
Manganese	ppm	ASTM D5185m		9	---	---
Magnesium	ppm	ASTM D5185m		64	---	---
Calcium	ppm	ASTM D5185m	4500	3814	---	---
Phosphorus	ppm	ASTM D5185m		719	---	---
Zinc	ppm	ASTM D5185m	1200	874	---	---
Sulfur	ppm	ASTM D5185m		3765	---	---
Oxidation	Abs/.1mm	*ASTM D7414		19.7	---	---
Base Number (BN)	mg KOH/g	ASTM D2896	15	10.05	---	---
Visc @ 100°C	cSt	ASTM D445	15	12.3	---	---



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TR06035399
Lab Number : 06035399
Unique Number : 10790628
Test Package : MOB 2 (Additional Tests: FT-IR, FUELDILUTION, KV100, PercentFuel, TBN)

Received : 14 Dec 2023
Tested : 19 Dec 2023
Diagnosed : 19 Dec 2023 - Jonathan Hester

HARRIS ENERGY INC
 456 WEST MAIN ST
 LITTLETON, NH
 US 03561
 Contact: DON PERCY

Certificate L2367
 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)