



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	ABNORMAL

Machine Id
FORD CHRIS PICK UP
 Component
Diesel Engine
 Fluid
TRC MOLY XL PROSPEC III 10W30 (--- GAL)

RECOMMENDATION

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR06145366	TR04618834	TR04544766
Sample Date		Client Info		04 Nov 2023	06 Dec 2018	16 Jun 2018
Machine Age	mls	Client Info		0	34927	25425
Oil Age	mls	Client Info		0	9502	6874
Filter Age	mls	Client Info		0	9502	6874
Oil Changed		Client Info		Changed	N/A	Changed
Filter Changed		Client Info		Changed	N/A	Changed
Sample Status				SEVERE	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	37	53	71
Chromium	ppm	ASTM D5185m	>20	<1	2	1
Nickel	ppm	ASTM D5185m	>2	0	<1	<1
Titanium	ppm	ASTM D5185m	>2	6	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	6	9	18
Lead	ppm	ASTM D5185m	>40	0	0	4
Copper	ppm	ASTM D5185m	>330	2	5	11
Tin	ppm	ASTM D5185m	>15	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

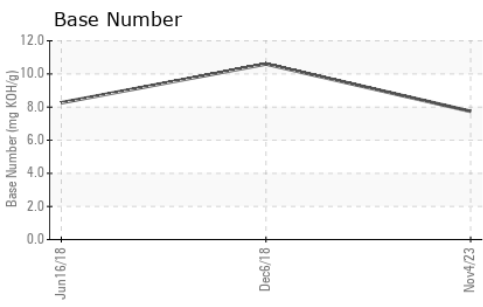
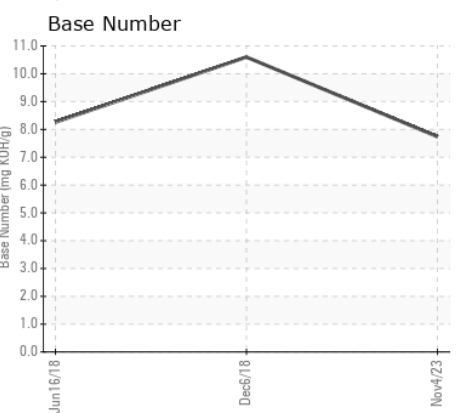
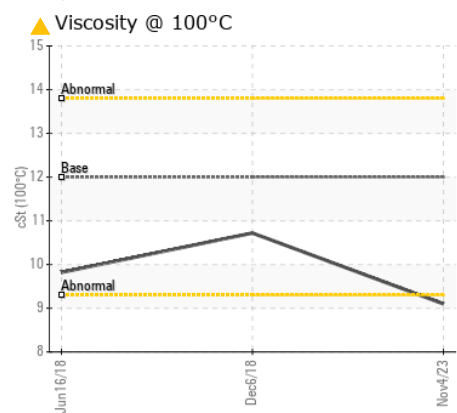
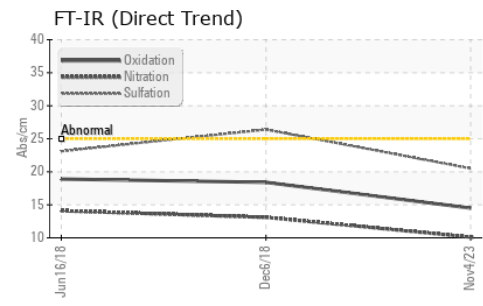
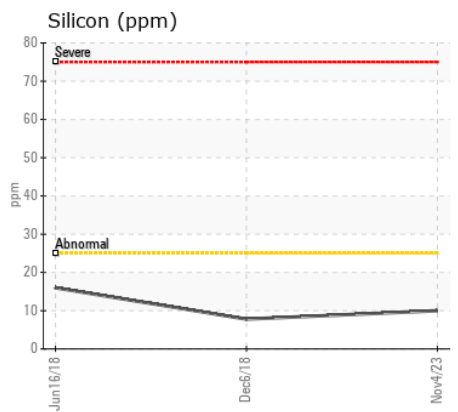
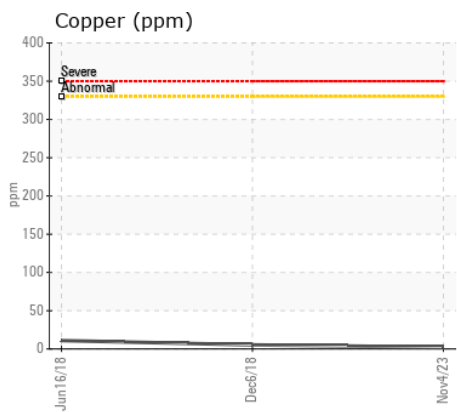
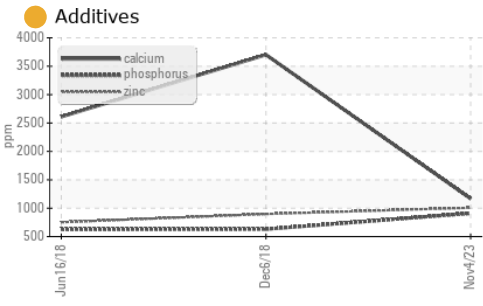
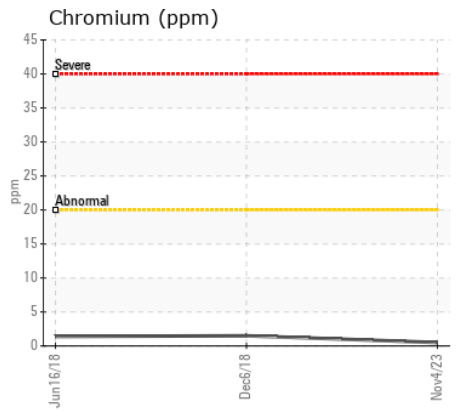
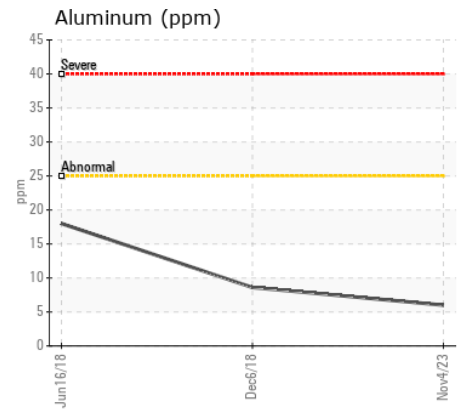
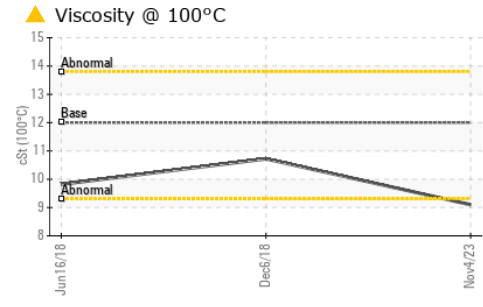
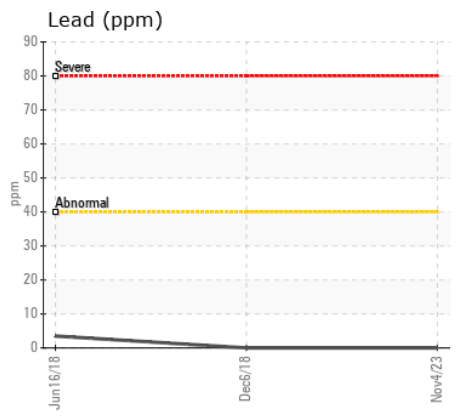
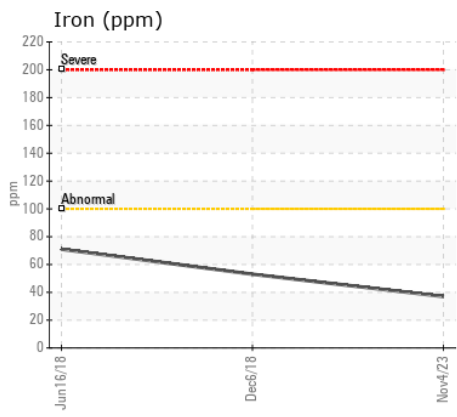
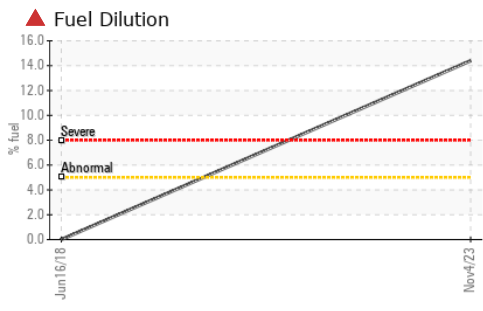
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

Silicon	ppm	ASTM D5185m	>25	10	8	16
Potassium	ppm	ASTM D5185m	>20	<1	2	27
Fuel	%	ASTM D3524	>5	▲ 14.4	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.7	1.7	0.7
Nitration	Abs/cm	*ASTM D7624	>20	10.1	13.1	14.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.5	26.4	23.1
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185m		4	5	40
Boron	ppm	ASTM D5185m		70	117	91
Barium	ppm	ASTM D5185m		11	0	<1
Molybdenum	ppm	ASTM D5185m		● 7	198	124
Manganese	ppm	ASTM D5185m		1	1	2
Magnesium	ppm	ASTM D5185m		● 539	413	256
Calcium	ppm	ASTM D5185m		● 1168	3702	2609
Phosphorus	ppm	ASTM D5185m		910	631	627
Zinc	ppm	ASTM D5185m		1007	897	752
Sulfur	ppm	ASTM D5185m		4142	2820	2356
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.5	18.4	18.9
Base Number (BN)	mg KOH/g	ASTM D2896		7.74	10.6	8.26
Visc @ 100°C	cSt	ASTM D445	12.0	▲ 9.1	10.72	9.82



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TR06145366 **Received** : 10 Apr 2024
Lab Number : 06145366 **Tested** : 16 Apr 2024
Unique Number : 10970174 **Diagnosed** : 16 Apr 2024 - Wes Davis
Test Package : MOB 2 (Additional Tests: FuelDilution, PercentFuel)

DEPENDABLE TREE SERVICE
 10705 S 300 E
 MARKLEVILLE, IN
 US 46056
 Contact: MARC DEMOTT

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)

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