



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
HONDA 4 WHEELER A-116

Component
Gasoline Engine

Fluid
TRC PRO-SPEC III SAE 10W30 (4 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR06224692	TR05932956	TR05763028
Sample Date		Client Info		30 Jun 2024	19 Jul 2023	23 Jan 2023
Machine Age	mls	Client Info		15037	13820	13117
Oil Age	mls	Client Info		500	600	600
Filter Age	mls	Client Info		500	600	600
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	SEVERE

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>150	13	15	19
Chromium	ppm	ASTM D5185m	>20	<1	1	1
Nickel	ppm	ASTM D5185m	>5	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>40	6	10	8
Lead	ppm	ASTM D5185m	>50	1	0	<1
Copper	ppm	ASTM D5185m	>155	5	6	6
Tin	ppm	ASTM D5185m	>10	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

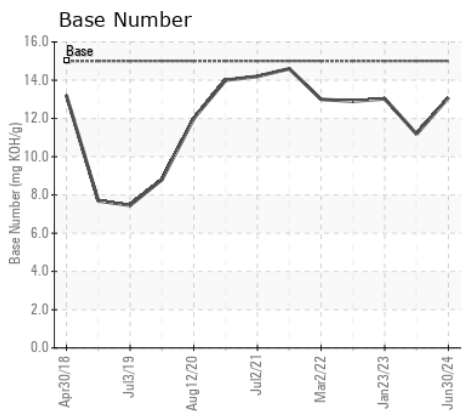
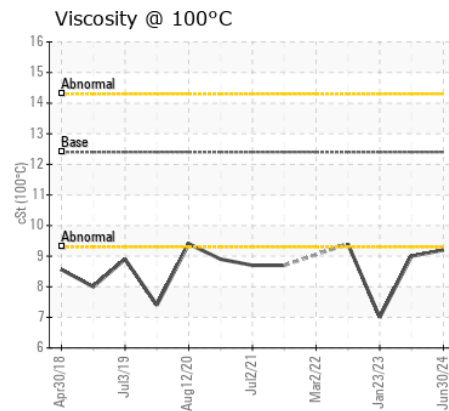
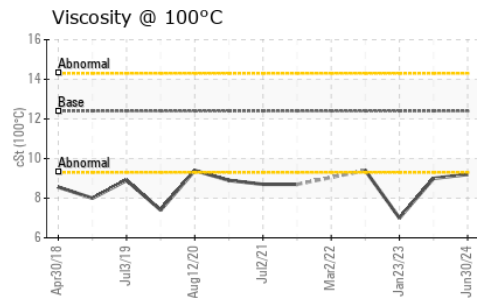
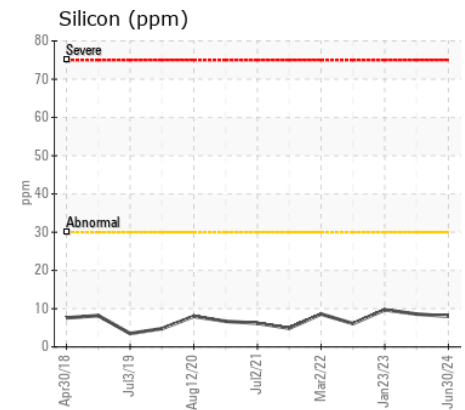
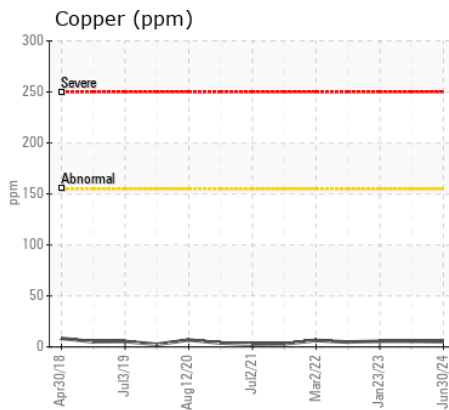
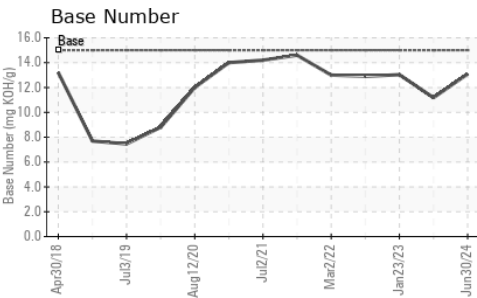
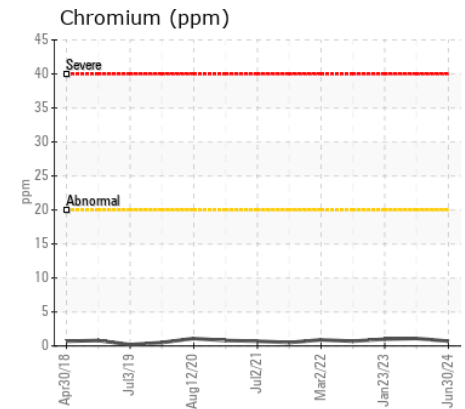
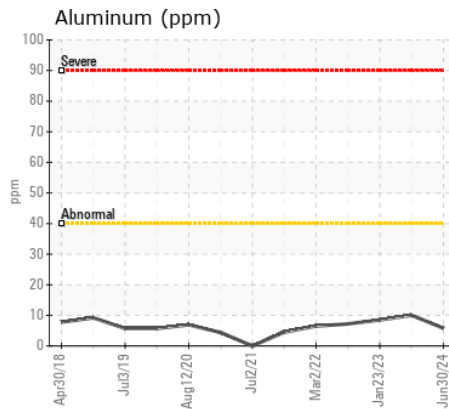
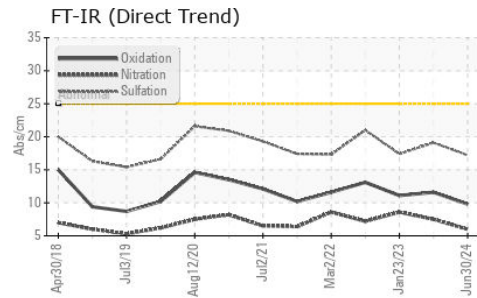
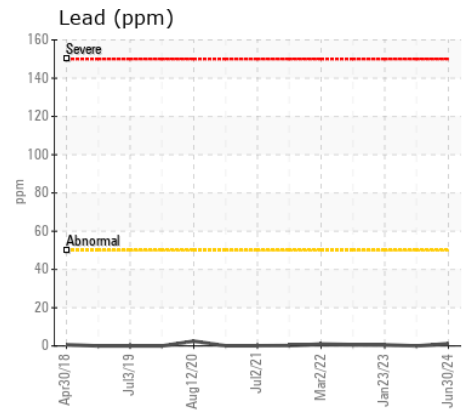
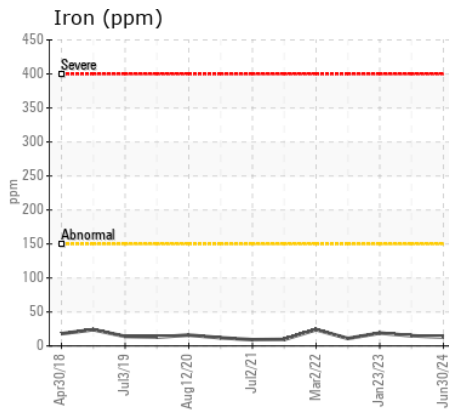
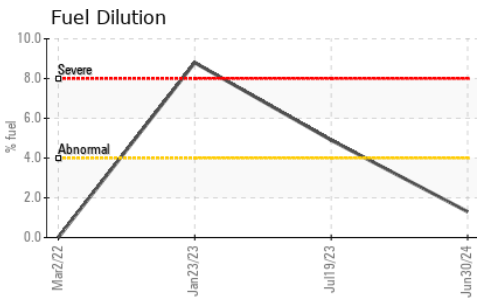
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>30	8	9	10
Potassium	ppm	ASTM D5185m	>20	3	2	2
Fuel	%	ASTM D3524	>4.0	1.3	▲ 4.9	▲ 8.8
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844		0	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	6.0	7.5	8.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.2	19.1	17.4
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. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>400	3	3	3
Boron	ppm	ASTM D5185m		0	2	2
Barium	ppm	ASTM D5185m		0	0	<1
Molybdenum	ppm	ASTM D5185m		5	0	2
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		32	25	25
Calcium	ppm	ASTM D5185m	4500	4444	4839	4412
Phosphorus	ppm	ASTM D5185m		960	1040	925
Zinc	ppm	ASTM D5185m	1400	1179	1257	1099
Sulfur	ppm	ASTM D5185m		4328	5394	4820
Oxidation	Abs/.1mm	*ASTM D7414	>25	9.8	11.6	11.1
Base Number (BN)	mg KOH/g	ASTM D2896	15	13.09	11.18	13.03
Visc @ 100°C	cSt	ASTM D445	12.4	9.2	▲ 9	▲ 7



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TR06224692 **Received** : 01 Jul 2024
Lab Number : 06224692 **Tested** : 03 Jul 2024
Unique Number : 11102889 **Diagnosed** : 03 Jul 2024 - Jonathan Hester
Test Package : MOB 2 (Additional Tests: PercentFuel)

CHERRY HILL FARMS
 PO BOX 308
 SANTAQUIN, UT
 US 84655
 Contact: JOHN AAGARD

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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