



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
HONDA A-113
 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		TR06224698	TR05932963	TR05876325
Sample Date		Client Info		14 Jun 2024	02 Aug 2023	08 Jun 2023
Machine Age	mls	Client Info		22255	20887	20127
Oil Age	mls	Client Info		500	500	600
Filter Age	mls	Client Info		500	500	600
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ATTENTION

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>150	15	20	20
Chromium	ppm	ASTM D5185m	>20	1	1	<1
Nickel	ppm	ASTM D5185m	>5	<1	<1	<1
Titanium	ppm	ASTM D5185m		1	<1	<1
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>40	10	11	15
Lead	ppm	ASTM D5185m	>50	<1	0	<1
Copper	ppm	ASTM D5185m	>155	12	4	13
Tin	ppm	ASTM D5185m	>10	<1	<1	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

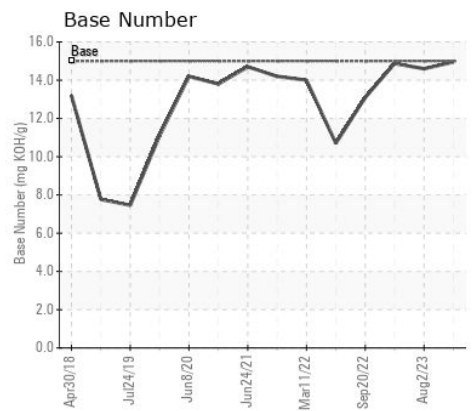
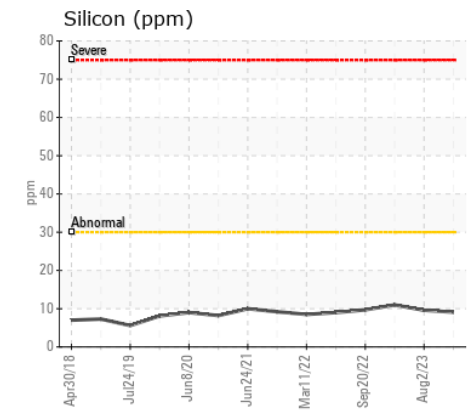
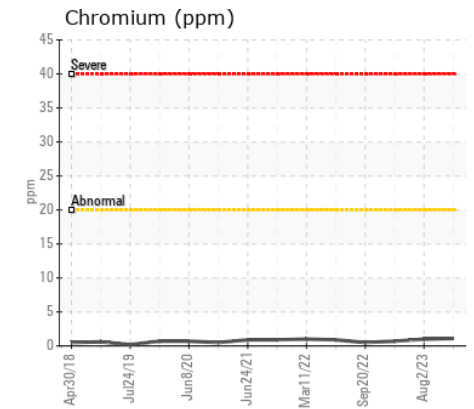
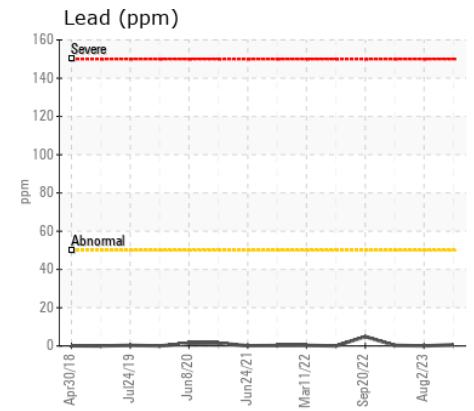
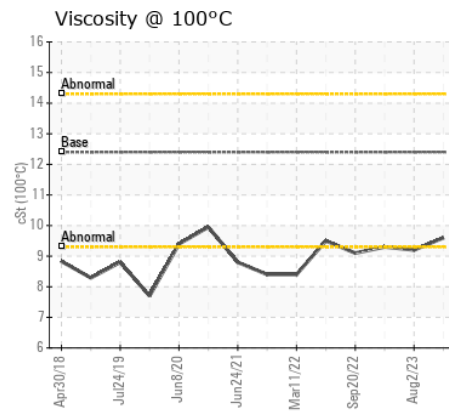
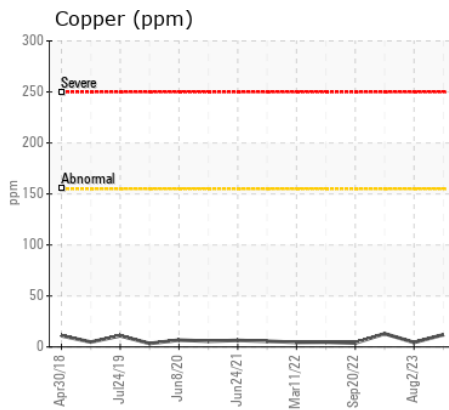
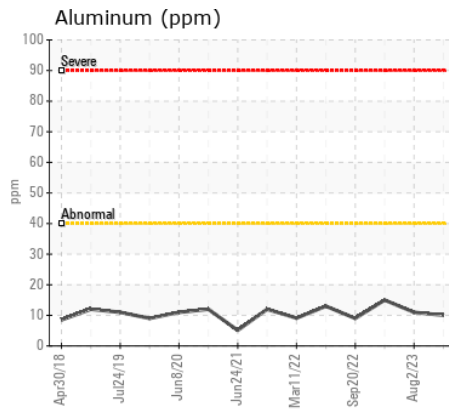
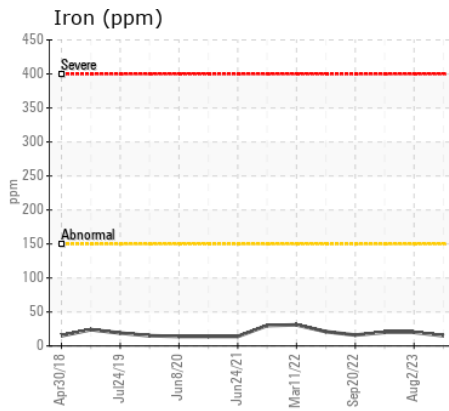
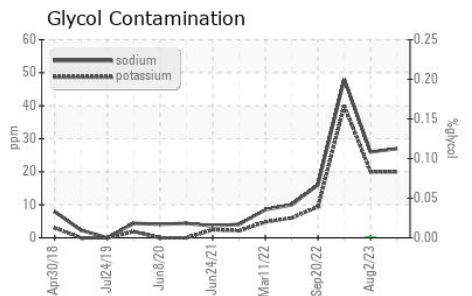
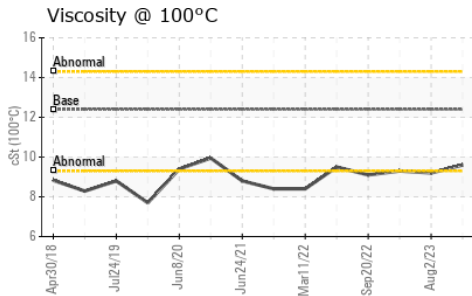
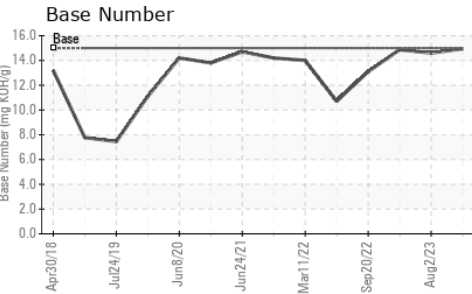
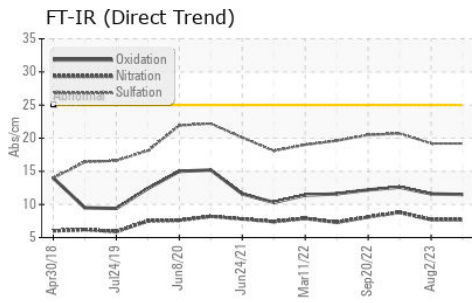
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>30	9	10	11
Potassium	ppm	ASTM D5185m	>20	20	20	40
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	*ASTM D2982		NEG	0.0	NEG
Soot %	%	*ASTM D7844		0.1	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	7.7	7.7	8.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.2	19.2	20.7
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	27	26	48
Boron	ppm	ASTM D5185m		1	4	3
Barium	ppm	ASTM D5185m		0	0	3
Molybdenum	ppm	ASTM D5185m		5	3	6
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		31	33	19
Calcium	ppm	ASTM D5185m	4500	4857	5086	4918
Phosphorus	ppm	ASTM D5185m		982	1104	1000
Zinc	ppm	ASTM D5185m	1400	1261	1346	1223
Sulfur	ppm	ASTM D5185m		4345	5640	4693
Oxidation	Abs/.1mm	*ASTM D7414	>25	11.5	11.6	12.6
Base Number (BN)	mg KOH/g	ASTM D2896	15	14.95	14.60	14.87
Visc @ 100°C	cSt	ASTM D445	12.4	9.6	9.2	9.3



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TR06224698
Lab Number : 06224698
Unique Number : 11102895
Test Package : MOB 2 (Additional Tests: Glycol)

Received : 01 Jul 2024
Tested : 02 Jul 2024
Diagnosed : 02 Jul 2024 - Don Baldrige

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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