



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
CASE IH 8120 2012 CASE IH 8120
 Component
Diesel Engine
 Fluid
TRC MOLY XL PROSPEC III 15W40 (9 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR05902922	TR05408832	---
Sample Date		Client Info		17 Jul 2023	09 Nov 2021	---
Machine Age	hrs	Client Info		3341	3098	---
Oil Age	hrs	Client Info		243	161	---
Filter Age	hrs	Client Info		243	161	---
Oil Changed		Client Info		Not Changd	Not Changd	---
Filter Changed		Client Info		Not Changd	Not Changd	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	17	13	---
Chromium	ppm	ASTM D5185m	>20	<1	<1	---
Nickel	ppm	ASTM D5185m	>4	0	<1	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m	>3	0	0	---
Aluminum	ppm	ASTM D5185m	>20	4	3	---
Lead	ppm	ASTM D5185m	>40	5	4	---
Copper	ppm	ASTM D5185m	>330	2	2	---
Tin	ppm	ASTM D5185m	>15	1	0	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

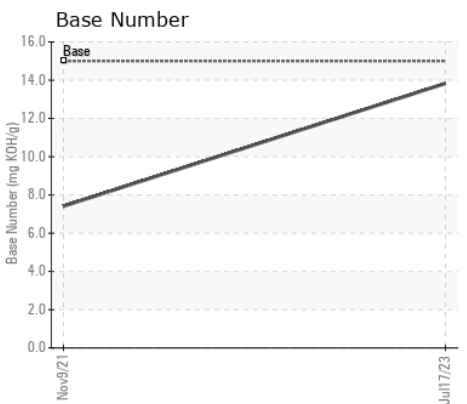
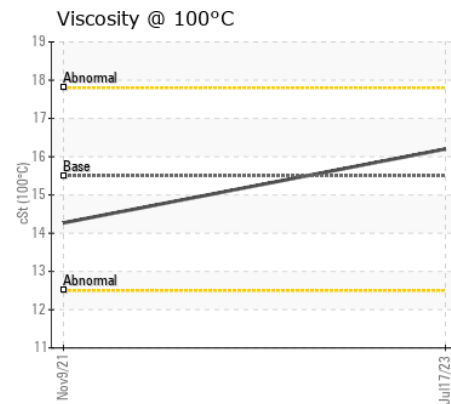
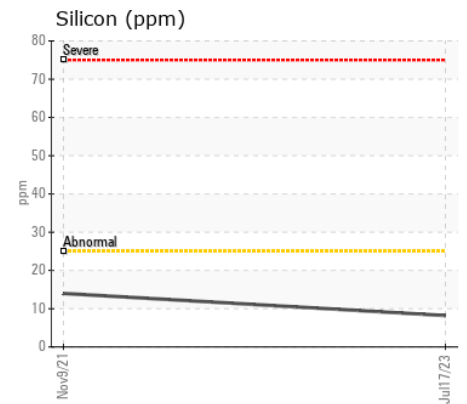
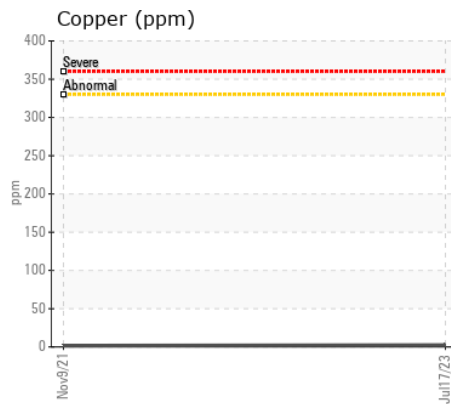
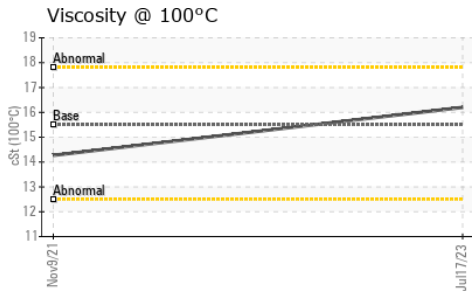
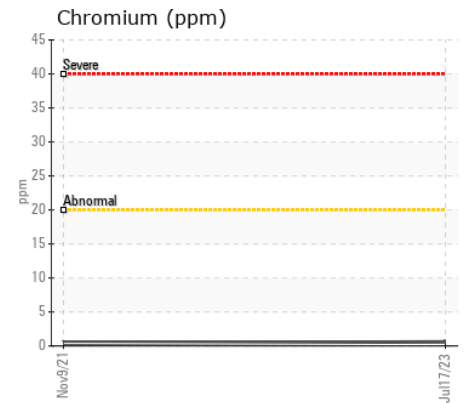
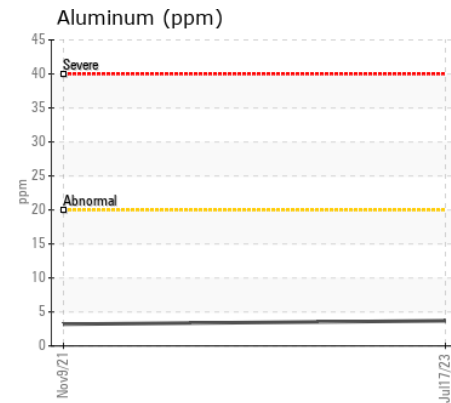
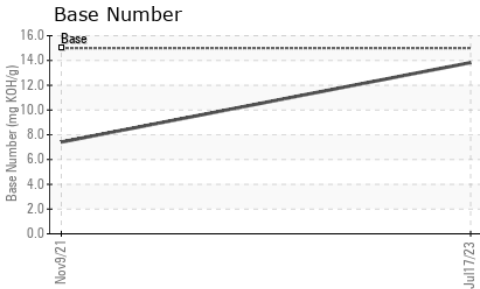
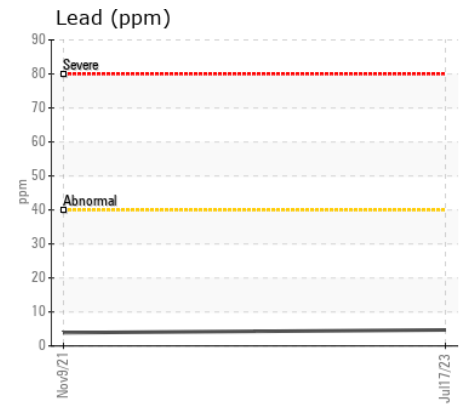
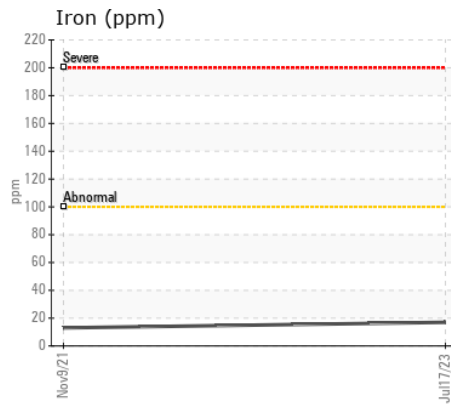
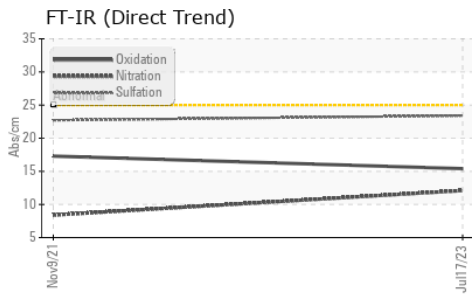
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	8	14	---
Potassium	ppm	ASTM D5185m	>20	3	2	---
Fuel		WC Method	>5	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	1	0.6	---
Nitration	Abs/cm	*ASTM D7624	>20	12.1	8.4	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.4	22.7	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	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		8	6	---
Boron	ppm	ASTM D5185m		51	408	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		138	90	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m		80	585	---
Calcium	ppm	ASTM D5185m	4500	4584	1719	---
Phosphorus	ppm	ASTM D5185m		1026	1199	---
Zinc	ppm	ASTM D5185m	1400	1241	1331	---
Sulfur	ppm	ASTM D5185m		5316	3860	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.4	17.3	---
Base Number (BN)	mg KOH/g	ASTM D2896	15	13.83	7.41	---
Visc @ 100°C	cSt	ASTM D445	15.5	16.2	14.27	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TR05902922
Lab Number : 05902922
Unique Number : 10564278
Test Package : MOB 2

Received : 19 Jul 2023
Tested : 20 Jul 2023
Diagnosed : 21 Jul 2023 - Wes Davis

WEST HILLS JV
 43667 LAKE RD E
 SPRAGUE, WA
 US 99032
 Contact: RON GROGAN

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)

T:
F: