



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
CASE-IH AFS 7240 7240-17 (S/N YHG234318)

Component
Diesel Engine

Fluid
TRC MOLY XL PRO-SPEC IV XP 15W40 (7 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR05441596	TR05132501	TR04871522
Sample Date		Client Info		16 Nov 2021	06 Nov 2020	19 Nov 2019
Machine Age	hrs	Client Info		646	481	326
Oil Age	hrs	Client Info		165	155	151
Filter Age	hrs	Client Info		165	155	151
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>100	22	17	30
Chromium	ppm	ASTM D5185m	>20	1	1	1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	6	7	12
Lead	ppm	ASTM D5185m	>40	<1	<1	0
Copper	ppm	ASTM D5185m	>330	452	131	36
Tin	ppm	ASTM D5185m	>15	<1	<1	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

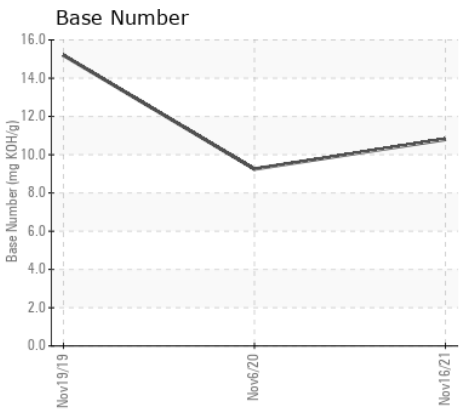
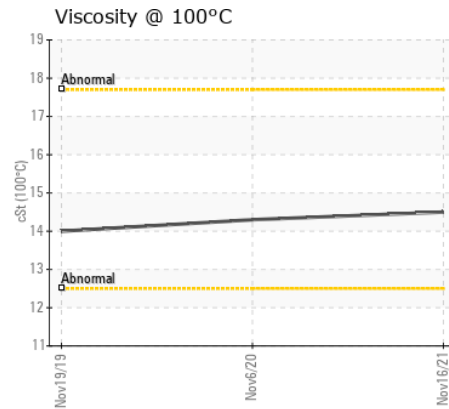
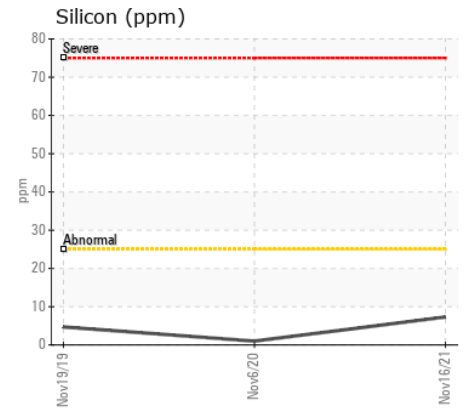
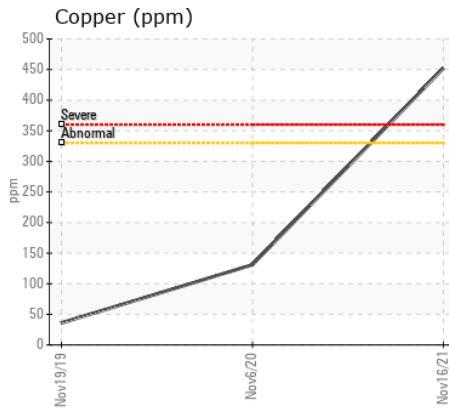
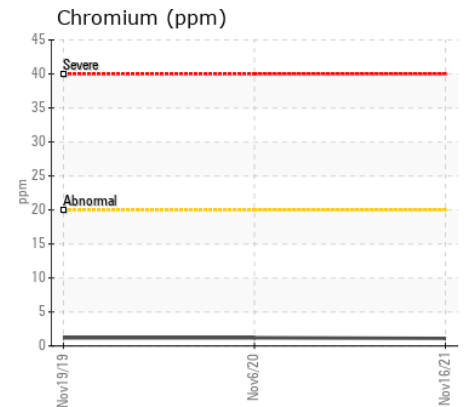
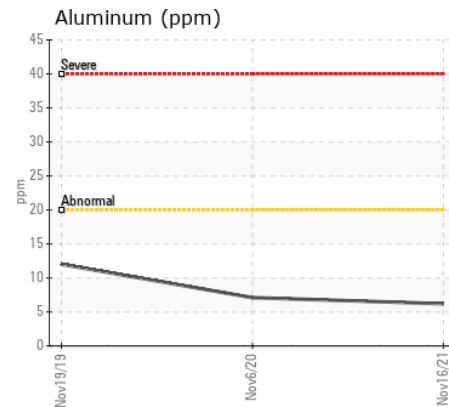
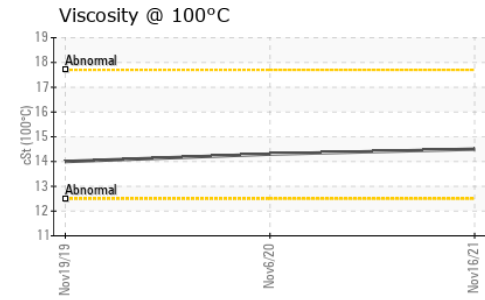
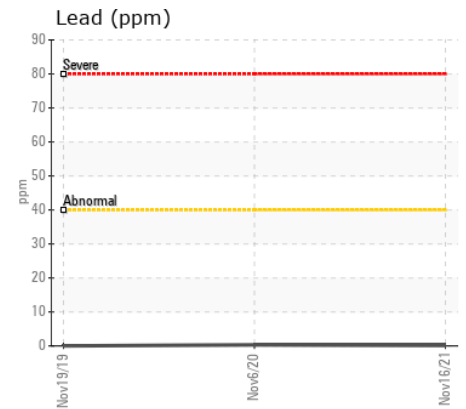
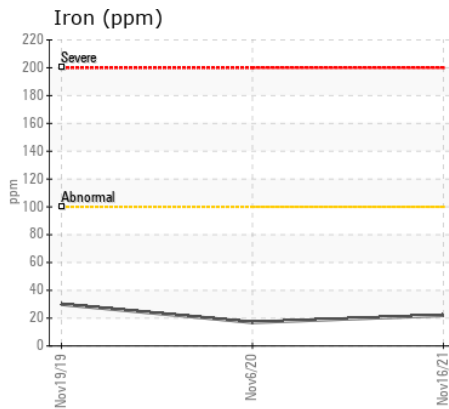
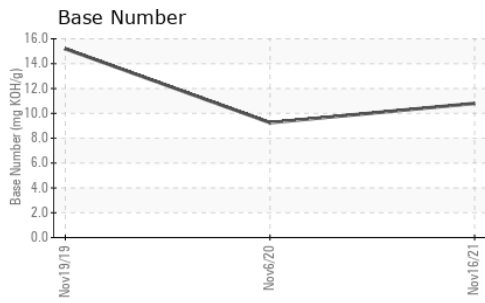
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	7	1	5
Potassium	ppm	ASTM D5185m	>20	22	23	36
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	9.4	11.9	10.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.7	19.4	17.6
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		9	5	6
Boron	ppm	ASTM D5185m		<1	5	4
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		139	179	150
Manganese	ppm	ASTM D5185m		<1	<1	1
Magnesium	ppm	ASTM D5185m		150	876	862
Calcium	ppm	ASTM D5185m		3715	1784	1644
Phosphorus	ppm	ASTM D5185m		948	1197	1062
Zinc	ppm	ASTM D5185m		1029	1386	1273
Sulfur	ppm	ASTM D5185m		3324	3676	3379
Oxidation	Abs/.1mm	*ASTM D7414	>25	11.7	14.1	13.2
Base Number (BN)	mg KOH/g	ASTM D2896		10.8	9.25	15.2
Visc @ 100°C	cSt	ASTM D445		14.5	14.3	14.0



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TR05441596 **Received** : 11 Jan 2022
Lab Number : 05441596 **Diagnosed** : 12 Jan 2022
Unique Number : 9805789 **Diagnostician** : Wes Davis
Test Package : MOB 2

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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