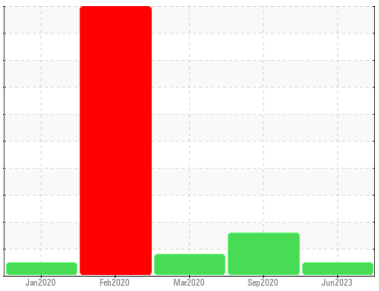
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Machine Id
FORD F-750 T2-607 (S/N 3FRXF7FE2BV347559)
Component
Diesel Engine
Fluid
DURALENE Dura-Max 15W40 (--- GAL)

DIAGNOSIS

Recommendation
The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

Wear
All component wear rates are normal.

Contamination
Light fuel dilution occurring. No other contaminants were detected in the oil.

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.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0804156**	WC0517942	WC0335866
Sample Date		Client Info		**21 Jun 2023**	17 Sep 2020	17 Mar 2020
Machine Age	mls	Client Info		**0**	225295	214429
Oil Age	mls	Client Info		**0**	24000	0
Oil Changed		Client Info		**Changed**	Changed	N/A
Sample Status				**NORMAL**	ABNORMAL	ABNORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Glycol		WC Method		**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	**52**	▲ 107	55
Chromium	ppm	ASTM D5185m	>20	**2**	3	2
Nickel	ppm	ASTM D5185m	>2	**<1**	1	<1
Titanium	ppm	ASTM D5185m	>2	**<1**	<1	0
Silver	ppm	ASTM D5185m	>2	**0**	0	0
Aluminum	ppm	ASTM D5185m	>25	**7**	12	7
Lead	ppm	ASTM D5185m	>40	**0**	2	0
Copper	ppm	ASTM D5185m	>330	**5**	2	1
Tin	ppm	ASTM D5185m	>15	**<1**	0	<1
Antimony	ppm	ASTM D5185m		**---**	0	0
Vanadium	ppm	ASTM D5185m		**<1**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**5**	3	4
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**5**	4	5
Manganese	ppm	ASTM D5185m		**<1**	<1	<1
Magnesium	ppm	ASTM D5185m		**83**	70	102
Calcium	ppm	ASTM D5185m		**2831**	2966	2306
Phosphorus	ppm	ASTM D5185m		**1074**	1080	915
Zinc	ppm	ASTM D5185m		**1291**	1239	1002
Sulfur	ppm	ASTM D5185m		**4657**	3271	2774

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**10**	12	8
Sodium	ppm	ASTM D5185m		**2**	6	4
Potassium	ppm	ASTM D5185m	>20	**1**	0	2
Fuel	%	ASTM D3524	>5	**1.1**	▲ 6.1	▲ 6.6

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	**0.3**	1.6	1.1
Nitration	Abs/cm	*ASTM D7624	>20	**10.2**	15	10.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	**21.9**	27.5	20.4

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	**16.2**	20.2	13.9
Base Number (BN)	mg KOH/g	ASTM D2896		**7.3**	9.3	8.1

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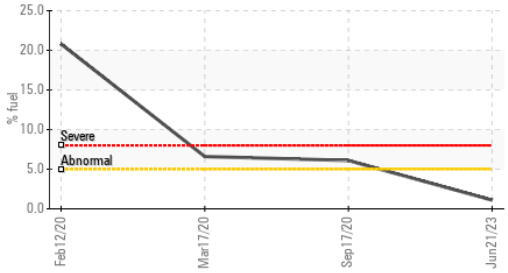
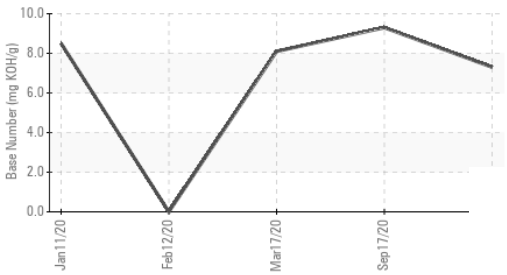
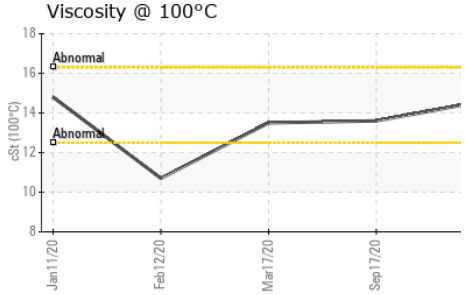
Fuel Dilution



Base Number



Viscosity @ 100°C

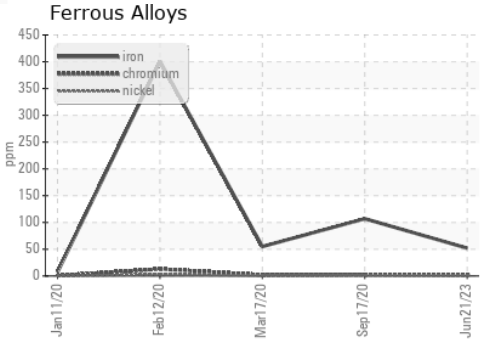


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	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
Free Water	scalar	*Visual		**NEG**	NEG	NEG

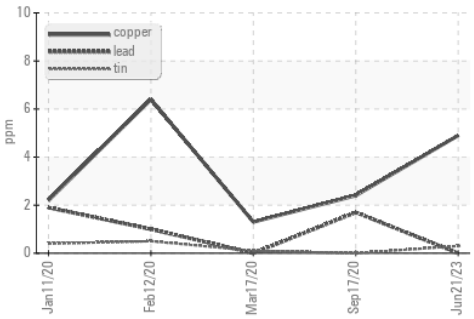
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445		**14.6**	13.6	13.5

GRAPHS

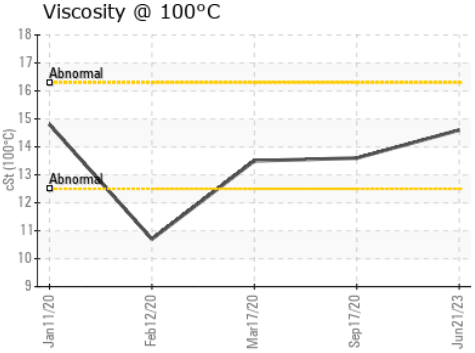
Ferrous Alloys



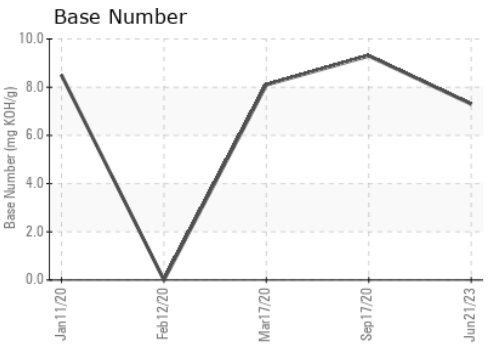
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0804156
Lab Number : 05905114
Unique Number : 10566470
Test Package : CONST (Additional Tests: PercentFuel, TBN)

Received : 24 Jul 2023
Diagnosed : 25 Jul 2023
Diagnostician : Wes Davis

EAI EQUIPMENT A DIIV OF PLEASANT CONSTRUCTION INC
24024 FREDERICK ROAD
CLARKSBURG, MD
US 20871
Contact: Service Manager

To discuss this sample report, contact Customer Service at 1-800-237-1369.
** - 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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