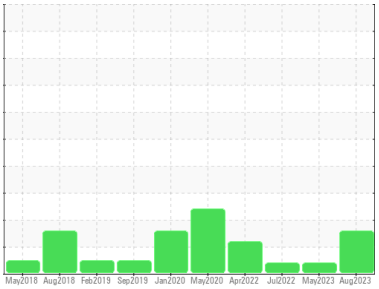
PROBLEM SUMMARY

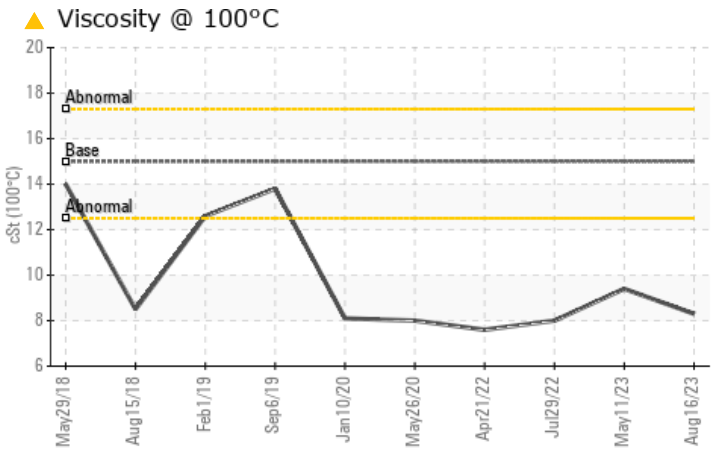
Sample Rating Trend



DEGRADATION

Area
CONSTRUCTORS, INC
Machine Id
FORD GASOLINE 04-0602
Component
Gasoline Engine
Fluid
MOBIL DELVAC 1 5W40 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	ATTENTION	ABNORMAL
Base Number (BN)	mg KOH/g	ASTM D2896	11.0	▲ **2.8**	4.4	4.7
Visc @ 100°C	cSt	ASTM D445	15.0	▲ **8.3**	▲ 9.4	▲ 8

Customer Id: CONLINNE
Sample No.: SBP0004668
Lab Number: 05929354
Test Package: FLEET

To manage this report scan the QR code

To discuss the diagnosis or test data:
Jonathan Hester +1 919-379-4092 x4092
jhester@wearcheckusa.com

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Fluid	---	---	?	Oil and filter change at the time of sampling has been noted.
Change Filter	---	---	?	Oil and filter change at the time of sampling has been noted.

HISTORICAL DIAGNOSIS

11 May 2023 Diag: Jonathan Hester

VISCOSITY

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

view report

29 Jul 2022 Diag: Angela Borella

VISCOSITY

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. Confirm oil type.

view report

21 Apr 2022 Diag: Don Baldridge

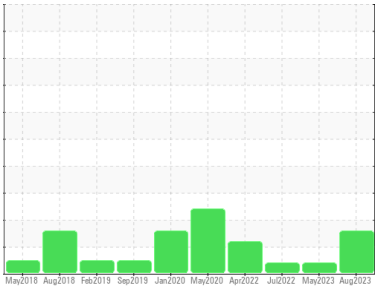
FUEL

We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. There is a moderate amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



DEGRADATION

Area
CONSTRUCTORS, INC
Machine Id
FORD GASOLINE 04-0602
Component
Gasoline Engine
Fluid
MOBIL DELVAC 1 5W40 (--- GAL)

DIAGNOSIS

Recommendation
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

Contamination
There is no indication of any contamination in the oil.

Fluid Condition
The oil viscosity is lower than normal. The BN level is low. Confirm oil type.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**SBP0004668**	SBP0003770	SBP0001324
Sample Date		Client Info		**16 Aug 2023**	11 May 2023	29 Jul 2022
Machine Age	mls	Client Info		**247481**	240385	232834
Oil Age	mls	Client Info		**7096**	7551	5859
Oil Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**ABNORMAL**	ATTENTION	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	>150	**42**	74	23
Chromium	ppm	ASTM D5185m	>20	**1**	1	<1
Nickel	ppm	ASTM D5185m	>5	**<1**	<1	<1
Titanium	ppm	ASTM D5185m		**0**	<1	0
Silver	ppm	ASTM D5185m	>2	**0**	0	<1
Aluminum	ppm	ASTM D5185m	>40	**9**	6	3
Lead	ppm	ASTM D5185m	>50	**0**	0	0
Copper	ppm	ASTM D5185m	>155	**2**	2	<1
Tin	ppm	ASTM D5185m	>10	**<1**	<1	<1
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**0**	<1	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	291	**26**	24	18
Barium	ppm	ASTM D5185m	0.0	**0**	0	0
Molybdenum	ppm	ASTM D5185m	8.0	**71**	66	56
Manganese	ppm	ASTM D5185m		**2**	3	<1
Magnesium	ppm	ASTM D5185m	624	**482**	466	280
Calcium	ppm	ASTM D5185m	2158	**1247**	1349	1487
Phosphorus	ppm	ASTM D5185m	1132	**651**	627	594
Zinc	ppm	ASTM D5185m	1300	**804**	750	709
Sulfur	ppm	ASTM D5185m	3616	**2938**	3029	2931

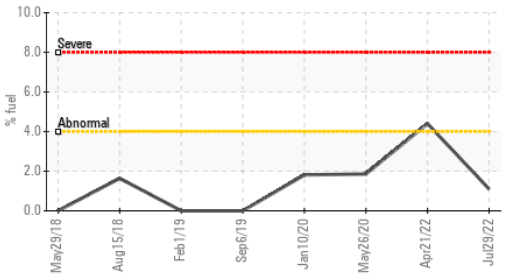
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	**10**	11	7
Sodium	ppm	ASTM D5185m	>400	**2**	8	2
Potassium	ppm	ASTM D5185m	>20	**2**	3	0
Fuel	%	ASTM D3524	>4.0	**<1.0**	<1.0	1.1

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		**0**	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	**11.7**	14.2	11.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	**25.1**	25.6	23.3

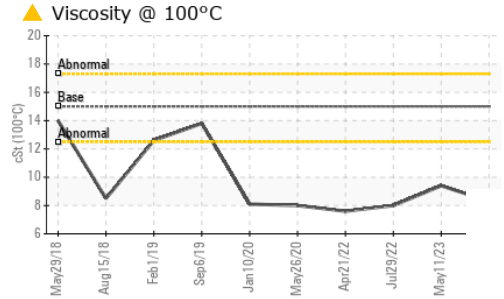
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	**19.3**	20.3	16.7
Base Number (BN)	mg KOH/g	ASTM D2896	11.0	**2.8**	4.4	4.7

OIL ANALYSIS REPORT

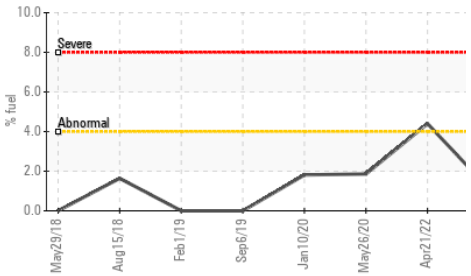
Fuel Dilution



Viscosity @ 100°C



Fuel Dilution

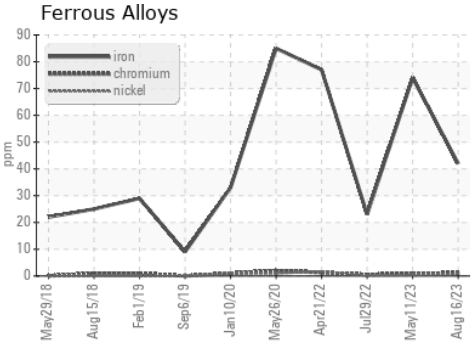


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt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

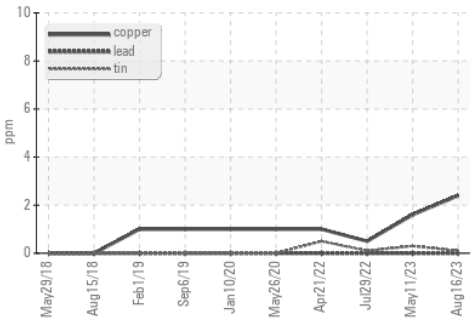
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.0	▲ **8.3**	▲ 9.4	▲ 8

GRAPHS

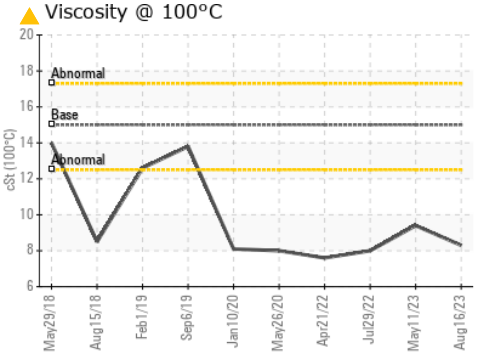
Ferrous Alloys



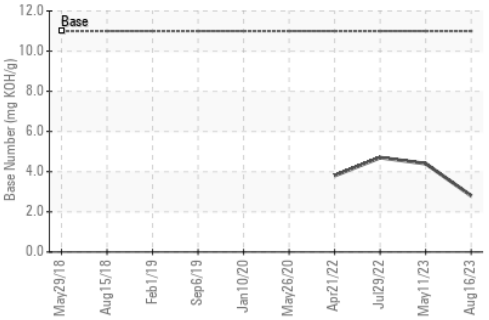
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : SBP0004668 **Received** : 21 Aug 2023
Lab Number : 05929354 **Diagnosed** : 23 Aug 2023
Unique Number : 10609301 **Diagnostician** : Jonathan Hester
Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel)

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)

Constructors Inc. - 603659
1815 Y Street
Lincoln, NE
US 68508
Contact: Jack Linhart
jackl@constructorslincoln.com
T: (402)434-2157
F: