OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
FORD 846-4155
Component
Gasoline Engine
Fluid
MOTORCRAFT FULL SYNTHETIC SAE 5W30 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

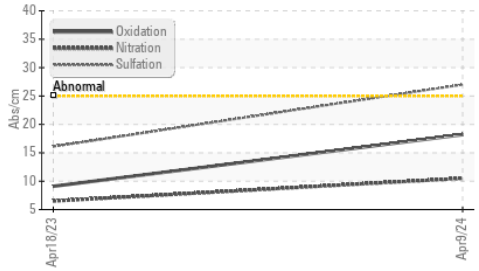
There is no indication of any contamination in the oil.

FLUID CONDITION

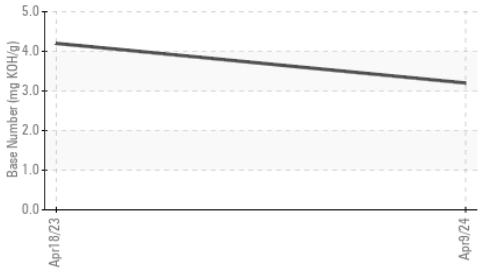
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0019297	RPL0012390	---
Sample Date		Client Info		09 Apr 2024	18 Apr 2023	---
Machine Age	mls	Client Info		58235	50278	---
Oil Age	mls	Client Info		58235	2660	---
Filter Age	mls	Client Info		0	2660	---
Oil Changed		Client Info		Not Changd	Not Changd	---
Filter Changed		Client Info		Changed	Not Changd	---
Sample Status				NORMAL	NORMAL	---
Iron	ppm	ASTM D5185m	>150	21	8	---
Chromium	ppm	ASTM D5185m	>20	2	0	---
Nickel	ppm	ASTM D5185m	>5	2	0	---
Titanium	ppm	ASTM D5185m		<1	0	---
Silver	ppm	ASTM D5185m	>2	<1	0	---
Aluminum	ppm	ASTM D5185m	>40	4	2	---
Lead	ppm	ASTM D5185m	>50	1	0	---
Copper	ppm	ASTM D5185m	>155	10	2	---
Tin	ppm	ASTM D5185m	>10	2	0	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>30	11	9	---
Potassium	ppm	ASTM D5185m	>20	5	1	---
Fuel		WC Method	>4.0	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844		0.1	0	---
Nitration	Abs/cm	*ASTM D7624	>20	10.5	6.5	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	27.0	16.1	---
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	---
Sodium	ppm	ASTM D5185m	>400	8	3	---
Boron	ppm	ASTM D5185m		19	141	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		73	75	---
Manganese	ppm	ASTM D5185m		2	<1	---
Magnesium	ppm	ASTM D5185m		518	592	---
Calcium	ppm	ASTM D5185m		973	1028	---
Phosphorus	ppm	ASTM D5185m		658	772	---
Zinc	ppm	ASTM D5185m		733	882	---
Sulfur	ppm	ASTM D5185m		3095	3373	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.2	9.1	---
Base Number (BN)	mg KOH/g	ASTM D2896		3.2	4.20	---
Visc @ 100°C	cSt	ASTM D445		9.1	9.2	---

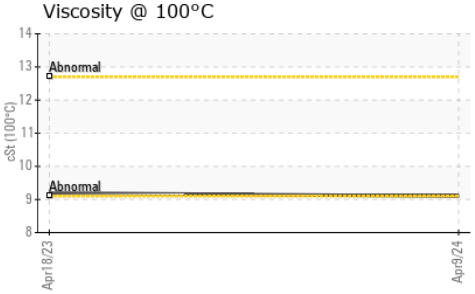
FT-IR (Direct Trend)



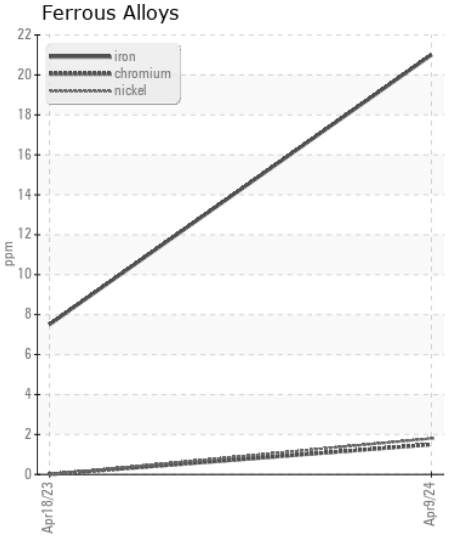
Base Number



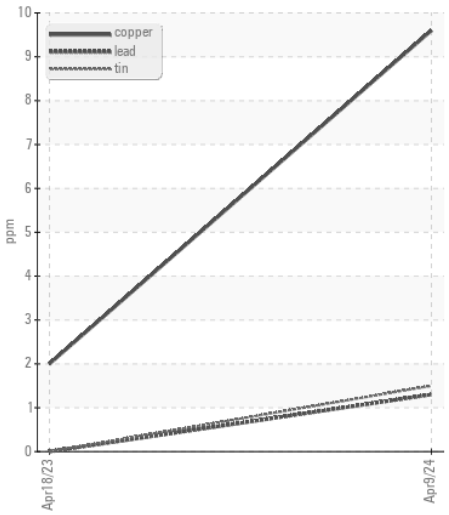
Viscosity @ 100°C



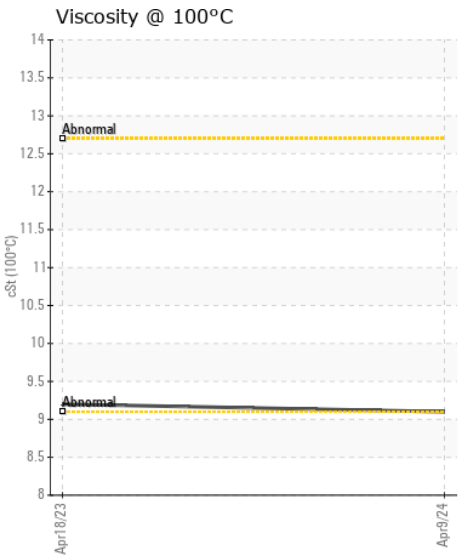
Ferrous Alloys



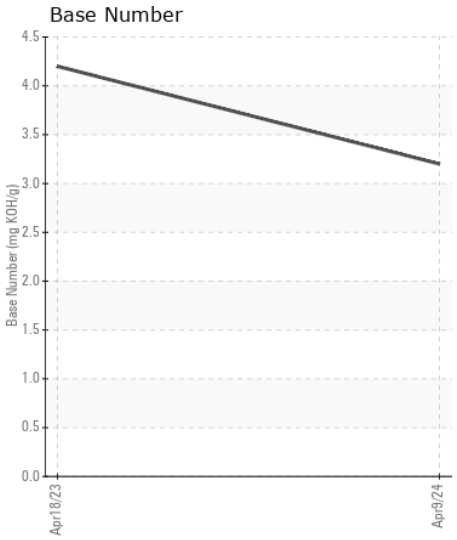
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0019297
Lab Number : 06152944
Unique Number : 10983022
Test Package : FLEET

Received : 18 Apr 2024
Tested : 19 Apr 2024
Diagnosed : 19 Apr 2024 - Wes Davis

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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