OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
FORD 8464740
Component
Diesel Engine
Fluid
MOTORCRAFT SUPER PREMIUM SAE 10W30 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

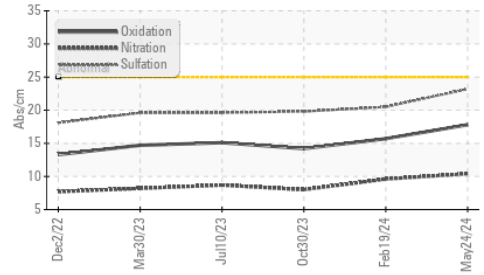
There is no indication of any contamination in the oil.

FLUID CONDITION

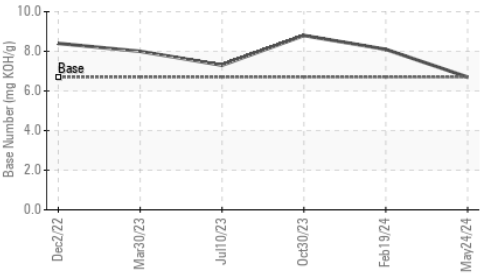
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0020433	RPL0017612	RPL0015865
Sample Date		Client Info		24 May 2024	19 Feb 2024	30 Oct 2023
Machine Age	mls	Client Info		13171	10434	9506
Oil Age	mls	Client Info		10434	10434	9506
Filter Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>100	80	54	19
Chromium	ppm	ASTM D5185m	>20	4	2	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	<1	0	<1
Aluminum	ppm	ASTM D5185m	>25	11	8	3
Lead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm	ASTM D5185m	>330	6	4	3
Tin	ppm	ASTM D5185m	>15	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	9	9	8
Potassium	ppm	ASTM D5185m	>20	2	1	4
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	0.5	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	10.4	9.6	8.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.2	20.5	19.8
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
Sodium	ppm	ASTM D5185m		4	2	<1
Boron	ppm	ASTM D5185m		46	69	87
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		12	8	7
Manganese	ppm	ASTM D5185m		3	2	<1
Magnesium	ppm	ASTM D5185m		670	731	654
Calcium	ppm	ASTM D5185m		1382	1450	1346
Phosphorus	ppm	ASTM D5185m		1036	1143	996
Zinc	ppm	ASTM D5185m		1190	1290	1187
Sulfur	ppm	ASTM D5185m		4088	4647	4117
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.8	15.7	14.2
Base Number (BN)	mg KOH/g	ASTM D2896	6.7	6.7	8.1	8.8
Visc @ 100°C	cSt	ASTM D445	10.8	10.05	10.3	10.7

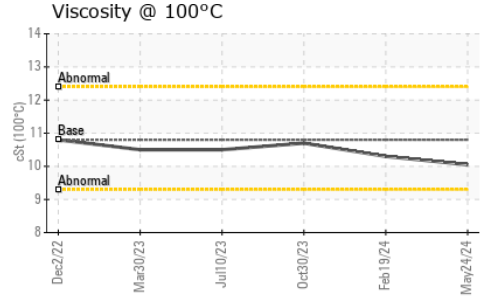
FT-IR (Direct Trend)



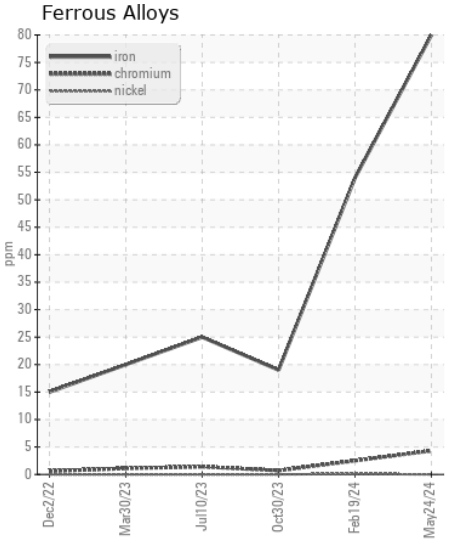
Base Number



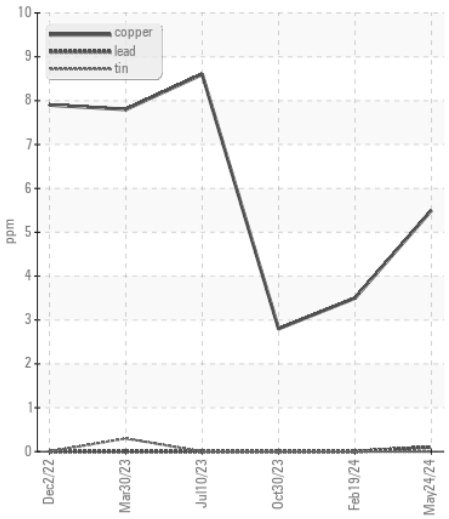
Viscosity @ 100°C



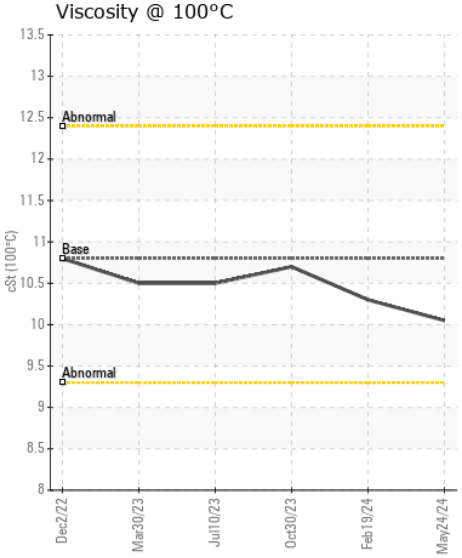
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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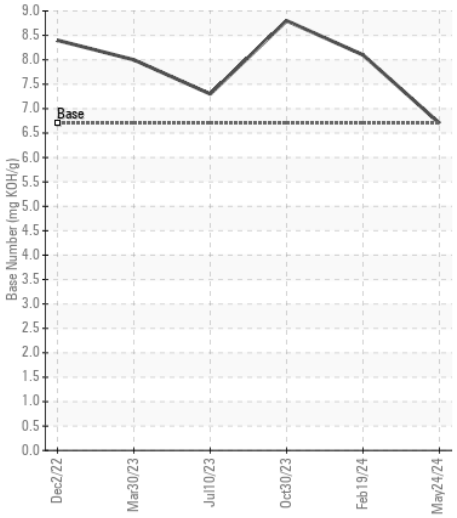

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0020433
Lab Number : 06225887
Unique Number : 11109380
Test Package : FLEET

Received : 02 Jul 2024
Tested : 08 Jul 2024
Diagnosed : 09 Jul 2024 - Jonathan Hester

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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