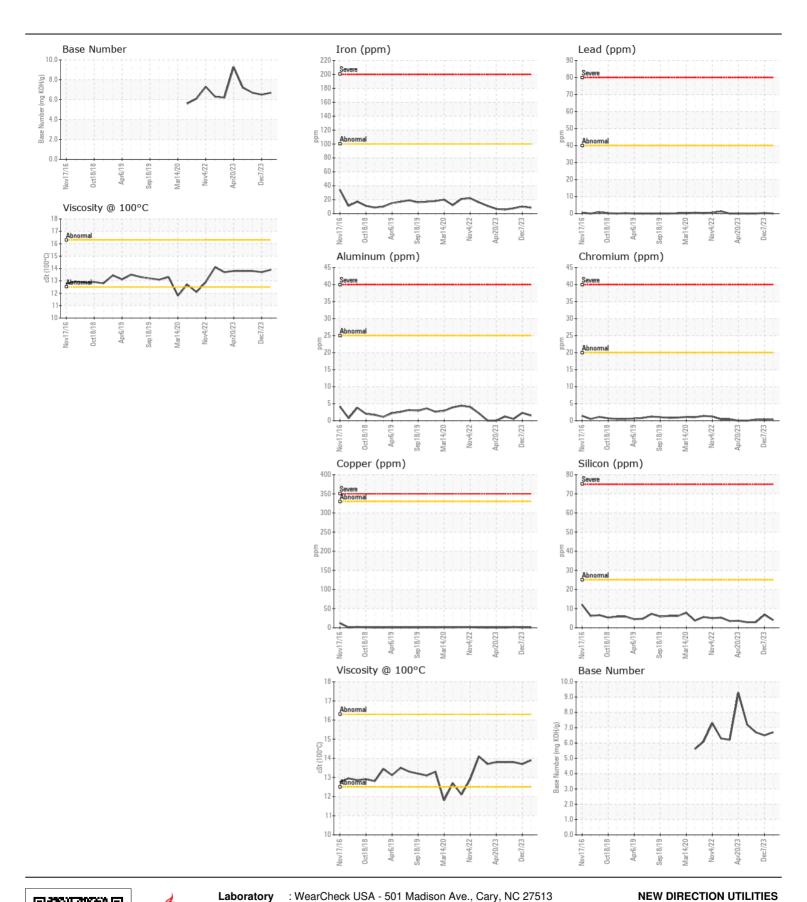
WEAR CONTAMINATION **FLUID CONDITION** NORMAL **NORMAL NORMAL**

FORD 343-16

Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		DC0030587	DC0030567	DC002862
	Sample Date		Client Info		29 Jan 2024	07 Dec 2023	27 Jul 202
	Machine Age	mls	Client Info		275452	269193	255285
	Oil Age	mls	Client Info		6000	9000	7683
	Filter Age	mls	Client Info		0	0	0
	Oil Changed		Client Info		Changed	N/A	Changed
	Filter Changed		Client Info		Changed	N/A	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
VEAR	Iron	nnm	ASTM D5185m	>100	8	10	8
WEAR	Chromium	ppm	ASTM D5185m		<1	<1	<1
All component wear rates are normal.	Nickel		ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver		ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		2	2	<1
	Lead	ppm	ASTM D5185m		0	<1	0
	Copper	ppm	ASTM D5185m		<1	1	2
	Tin	ppm	ASTM D5185m		<1	<1	0
	Vanadium	ppm	ASTM D5185m	7.0	0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m		4	7	3
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		<1	2	0
	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol	21	WC Method	0	NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.1	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	7.3	7.3	7.7
	Sulfation	Abs/.1mm	*ASTM D7415		17.3	18.1	17.9
	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	NORM NORM
	Odor	scalar	*Visual	NORML	NORML	_	
<u></u>	Emulsified Water	Scalai	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		<1	1	<1
	Boron	ppm	ASTM D5185m		3	4	0
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		2	1	1
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		45	43	27
	Calcium	ppm	ASTM D5185m		2209	2278	2347
	Phosphorus	ppm	ASTM D5185m		920	922	892
	Zinc	ppm	ASTM D5185m		1080	1105	1093
	Sulfur	ppm	ASTM D5185m		3780	3739	4504
	Oxidation	Abs/.1mm	*ASTM D7414	>25	10.8	11.4	11.0
	Base Number (BN)	mg KOH/g	ASTM D2896		6.7	6.5	6.7
	Visc @ 100°C	cSt	ASTM D445		13.9	13.7	13.8







Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : DC0030587 Lab Number : 06089398

Unique Number : 10876843

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

Test Package : MOB 1 (Additional Tests: TBN)

: 14 Feb 2024 Received **Tested**

Diagnosed

: 15 Feb 2024

: 15 Feb 2024 - Wes Davis

Contact: GARY BLOYER

gary@newdirectionutilities.com T: (301)714-0083

* - 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)

F:

21616 KELSO DR

US 21742

HAGERSTOWN, MD