

Machine Id

WEAR	
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id FORD 552-12							
Component							
Diesel Engine							
DURALENE Dura-Max 15W40 (13 QTS)							
	Taat		Method	Limit/Aba	Current	History1	Lliators (O
RECOMMENDATION	Test Sample Number	UOM	Client Info	Limit/Abn	DC0033064	DC0020741	History2
Resample at the next service interval to monitor.	Sample Date		Client Info		19 Apr 2024	09 May 2022	
	Machine Age	mls	Client Info		187197	182191	
	Oil Age	mls	Client Info		5000	182191	
	Filter Age	mls	Client Info		5000	5000	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	NORMAL	
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m		57	31	
	Chromium	ppm	ASTM D5185m		4	4	
	Nickel	ppm	ASTM D5185m		<1	0	
	Titanium	ppm	ASTM D5185m		<1	0	
	Silver Aluminum	ppm	ASTM D5185m ASTM D5185m		1	0 13	
	Lead	ppm	ASTM D5185m	>20	6 0	<1	
	Copper	ppm ppm	ASTM D5185m		3	2	
	Tin	ppm	ASTM D5185m		0	<1	
	Vanadium	ppm	ASTM D5185m	210	۰ <1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	6	7	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		2	<1	
	Fuel		WC Method		<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol	0/	WC Method	0	NEG	NEG	
	Soot %	%	*ASTM D7844 *ASTM D7624		0.1 9.1	0.1 7.9	
	Nitration Sulfation	Abs/cm Abs/.1mm	*ASTM D7624		20.3	17.2	
	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	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	2	
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		6	18	
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		4	7	
	Manganese	ppm	ASTM D5185m		<1 50	<1	
	Magnesium	ppm	ASTM D5185m ASTM D5185m		52 2503	73	
	Calcium Phosphorus	ppm	ASTM D5185m ASTM D5185m		2503 943	2197 851	
	Zinc	ppm ppm	ASTM D5185m		943 1121	1048	
		PPIII			1121	0.550	-

Sulfur

Oxidation

Visc @ 100°C cSt

ppm ASTM D5185m

Base Number (BN) mg KOH/g ASTM D2896

Abs/.1mm \*ASTM D7414 >25

ASTM D445

11.0

7.2

13.4

3556 ----

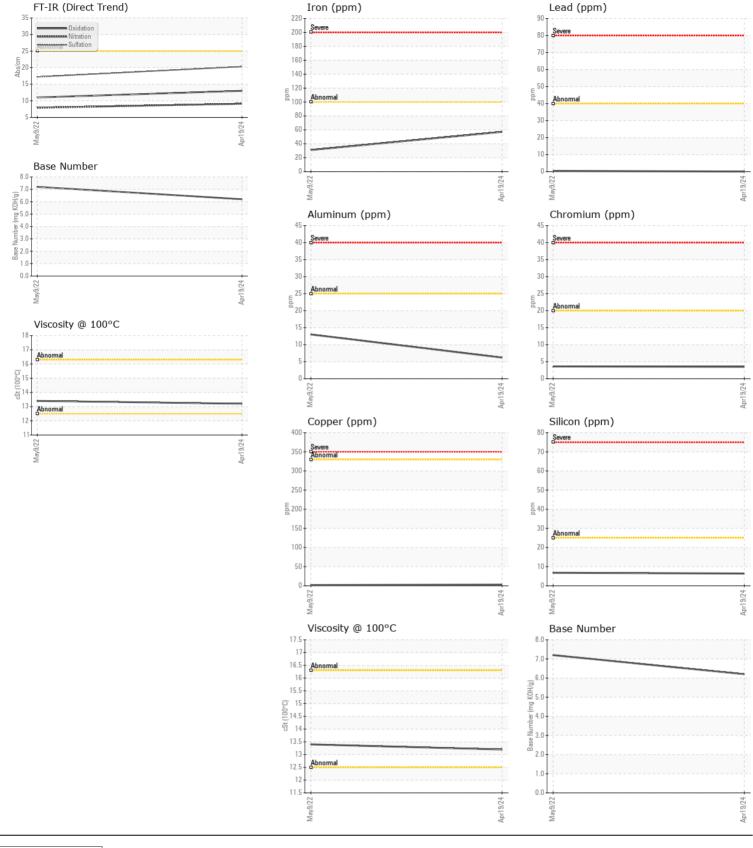
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3416

13.0

6.2

13.2



**NEW DIRECTION UTILITIES** Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : DC0033064 Received 21616 KELSO DR : 28 Jun 2024 Lab Number : 06224160 Tested HAGERSTOWN, MD : 01 Jul 2024 : 01 Jul 2024 - Wes Davis US 21742 Unique Number : 11102357 Diagnosed Test Package : MOB 1 (Additional Tests: TBN) Contact: GARY BLOYER Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. gary@newdirectionutilities.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (301)714-0083 F: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Submitted By: GARY BLOYER Page 2 of 2