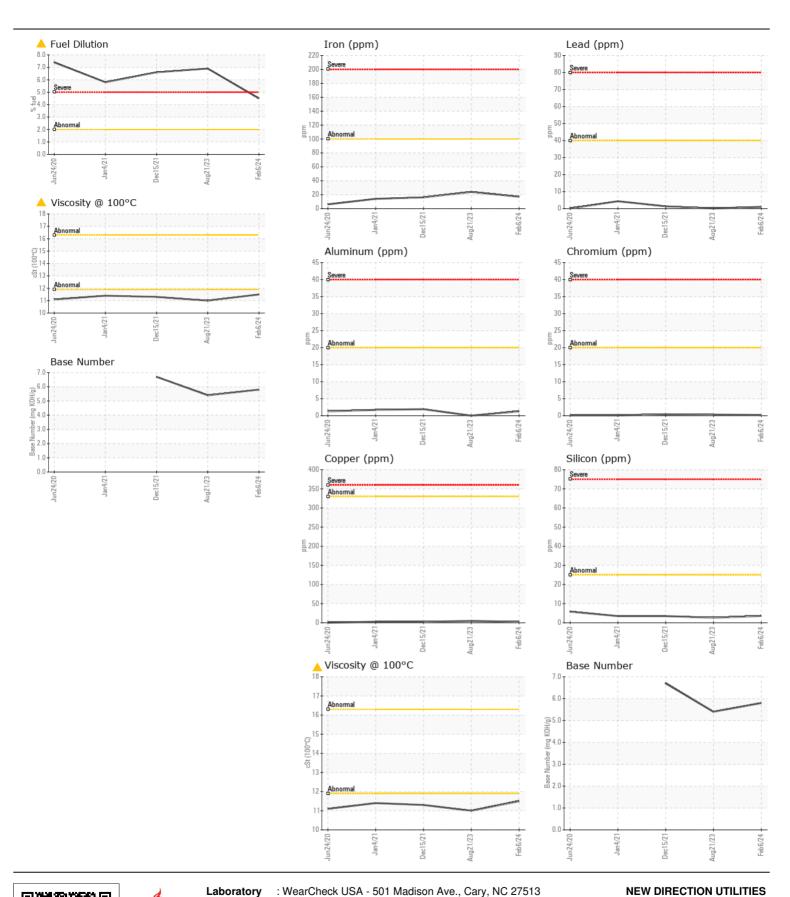
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL ABNORMAL ABNORMAL

Machine Id INTERNATIONAL 105-05

INTERNATIONAL 105-05 Component 1 Diesel Engine Fluid DURALENE Dura-Max 15W40 (30 QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TEOOMINETOR	Sample Number	00111	Client Info	Little	DC0030592	DC0028622	DC0014343
The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Date		Client Info		06 Feb 2024	21 Aug 2023	15 Dec 2021
	Machine Age	mls	Client Info		56562	50930	43730
	Oil Age	mls	Client Info		5632	7200	34045
	Filter Age	mls	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	SEVERE	SEVERE
WEAR	Iron	ppm	ASTM D5185m	>100	17	24	16
	Chromium	ppm	ASTM D5185m		<1	<1	<1
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m		0	0	<1
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m	>3	0	0	<1
	Aluminum	ppm	ASTM D5185m		1	0	2
	Lead	ppm	ASTM D5185m	>40	1	<1	1
	Copper	ppm	ASTM D5185m	>330	2	5	2
	Tin	ppm	ASTM D5185m	>15	<1	0	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
OONT ARRIVATION							
CONTAMINATION	Silicon	ppm	ASTM D5185m		4	3	4
There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.	Potassium	ppm	ASTM D5185m		<1	0	<1
	Fuel	%	ASTM D3524		<u>4.5</u>	6.9	6.6
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol	0/	WC Method	0	NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.4	0.4	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	7.4	8.3 21.7	8.5
	Sulfation Silt	Abs/.1mm	*ASTM D7415		19.2 NONE	NONE	20.6 NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance		*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		 5	8	7
I LOID CONDITION	Boron	ppm	ASTM D5185m		3	0	11
The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.	Barium		ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		4	3	5
	Manganese	ppm	ASTM D5185m		~ <1	<1	<1
	Magnesium	ppm	ASTM D5185m		54	60	71
	Calcium	ppm	ASTM D5185m		2069	2144	2195
	Phosphorus	ppm	ASTM D5185m		857	826	861
	Zinc	ppm	ASTM D5185m		997	996	1044
	Sulfur	ppm	ASTM D5185m		3530	4111	3557
	Oxidation	Abs/.1mm	*ASTM D7414	>25	11.3	12.6	12.3
	Base Number (BN)	mg KOH/g	ASTM D2896		5.8	5.4	6.7
	Dase Mullipel (DIM)	IIIQ NOI I/U	ASTIVI DZ030		J.0	5.4	0.7







Laboratory Sample No.

Lab Number : 06089397

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : DC0030592

Unique Number : 10876842

Received **Tested** Diagnosed

: 14 Feb 2024 : 15 Feb 2024

: 15 Feb 2024 - Wes Davis

US 21742 Contact: GARY BLOYER gary@newdirectionutilities.com T: (301)714-0083

Test Package : MOB 1 (Additional Tests: PercentFuel, TBN) 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)

F:

21616 KELSO DR

HAGERSTOWN, MD