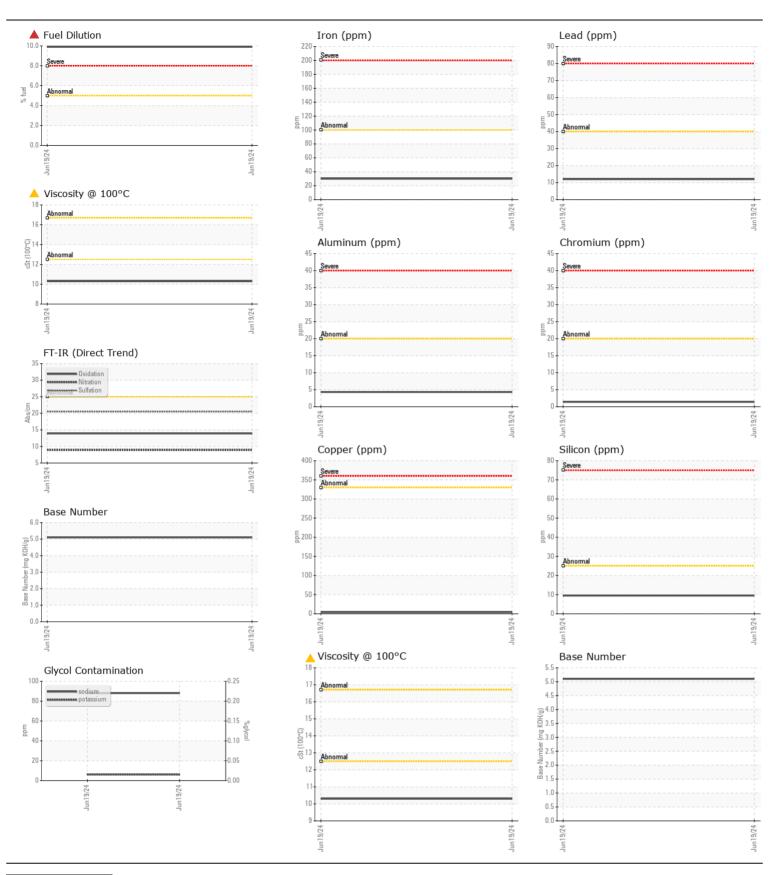
**WEAR** CONTAMINATION **FLUID CONDITION** 

**NORMAL SEVERE ABNORMAL** 

Machine Id

## NOT GIVEN DC0036506 Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check the fuel injection system. We recommend an early resample to monitor this condition.	Sample Number	OOW	Client Info	LITTIU/ADTI	DC0036506	,	
	Sample Date		Client Info		19 Jun 2024		
	Machine Age	mls	Client Info		0		
	Oil Age	mls	Client Info		0		
	Filter Age	mls	Client Info		0		
	Oil Changed	11110	Client Info		N/A		
	Filter Changed		Client Info		N/A		
	Sample Status				SEVERE		
WEAR	Iron	ppm	ASTM D5185m	>100	30		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		1		
	Nickel	ppm	ASTM D5185m	>4	<1		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m		<1		
	Aluminum	ppm	ASTM D5185m		4		
	Lead	ppm	ASTM D5185m		12		
	Copper	ppm	ASTM D5185m		4		
	Tin	ppm	ASTM D5185m	>15	1		
	Vanadium	ppm	ASTM D5185m	NONE	0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	10		
	Potassium	ppm	ASTM D5185m	>20	6		
Sodium and/or potassium levels are high. There is a high amount of fuel present in the oil. Test for glycol is negative.	Fuel	%	ASTM D3524	>5	<b>4</b> 9.9		
	Water		WC Method	>0.2	NEG		
	Glycol	%	*ASTM D2982		NEG		
	Soot %	%	*ASTM D7844	>3	0.1		
	Nitration	Abs/cm	*ASTM D7624	>20	8.9		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.5		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.2	NEG		
FLUID CONDITION	Sodium	nnm	ASTM D5185m		<b>88</b>		
LOID CONDITION	Boron	ppm	ASTM D5185m		10		
Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		4		
	Manganese	ppm	ASTM D5185m		1		
	Magnesium	ppm	ASTM D5185m		81		
	Calcium	ppm	ASTM D5185m		2118		
	Phosphorus	ppm	ASTM D5185m		861		
	Zinc	ppm	ASTM D5185m		1016		
	Sulfur	ppm	ASTM D5185m		3870		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	13.9		
	Base Number (BN)				5.1		





Certificate L2367

Laboratory Sample No.

: DC0036506 Lab Number : 06215373 Unique Number: 11088237

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 20 Jun 2024 **Tested** 

: 24 Jun 2024 Diagnosed

: 24 Jun 2024 - Jonathan Hester Test Package: MOB 1 (Additional Tests: FuelDilution, Glycol, PercentFuel, TBN) **NEW DIRECTION UTILITIES** 21616 KELSO DR HAGERSTOWN, MD US 21742

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

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: GARY BLOYER - NEWHAG