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

**NORMAL MARGINAL ABNORMAL** 

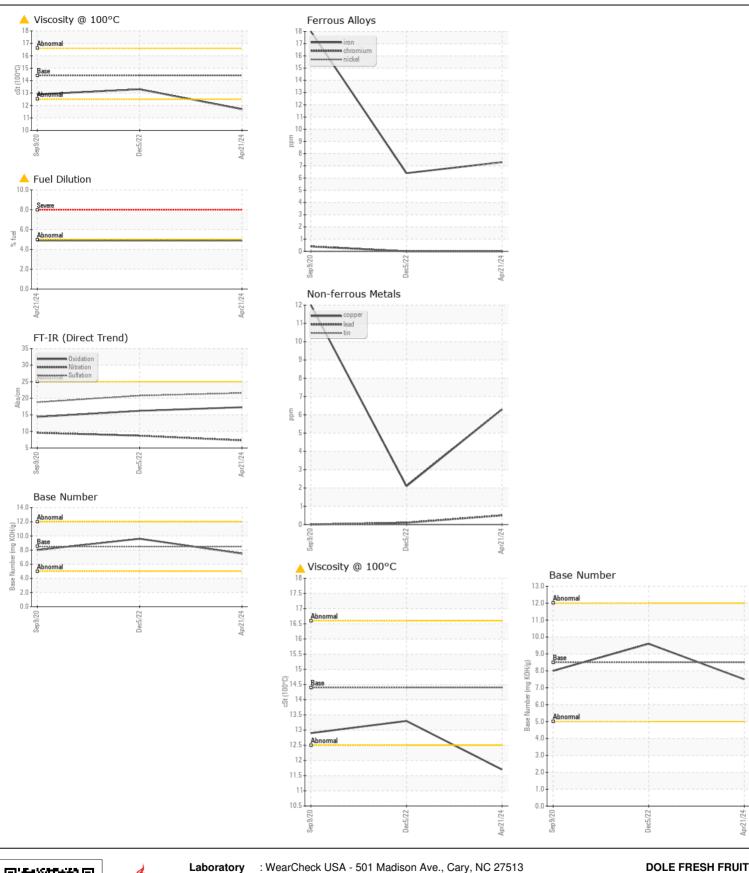
Machine Id

## **DFGS016018**

Component

Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Number		Client Info		WC0911126	WC0739080	WC0495939
	Sample Date		Client Info		21 Apr 2024	05 Dec 2022	09 Sep 2020
	Machine Age	hrs	Client Info		6219	3878	0
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	N/A	Changed
	Filter Changed		Client Info		Changed	N/A	Changed
	Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	7	6	18
	Chromium	ppm	ASTM D5185m	>20	0	0	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>4	0	0	0
	Titanium	ppm	ASTM D5185m		0	0	15
	Silver	ppm	ASTM D5185m	>3	<1	0	0
	Aluminum	ppm	ASTM D5185m		3	<1	4
	Lead	ppm	ASTM D5185m	>40	<1	<1	0
	Copper	ppm	ASTM D5185m	>330	6	2	12
	Tin	ppm	ASTM D5185m	>15	0	0	0
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	nnm	ASTM D5185m	<b>&gt;</b> 25	6	5	6
CONTAMINATION	Potassium	ppm	ASTM D5185m		0	1	2
Light fuel dilution occurring.	Fuel	ppm %	ASTM D3163111	>5	<u>↓</u> 4.9	<1.0	<1.0
	Water	/0	WC Method		NEG	NEG	NEG
	Glycol		WC Method	<i>&gt;</i> 0.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	<b>\3</b>	0.1	0.2	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	7.3	8.7	9.6
	Sulfation	Abs/.1mm	*ASTM D7415		21.6	20.8	18.8
	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
FLUID CONDITION	Codium	nnm	ASTM D5185m	- 016		2	·····
FLUID CONDITION	Sodium	ppm			3	2	3
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		404	317	89
oil. Fuel is present in the oil and is lowering the viscosity. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m	100	89	70 0	38
	Magnesium	ppm	ASTM D5185m	450	<1 407		<1
	Magnesium Calcium	ppm	ASTM D5185m ASTM D5185m	3000	407 1628	343 1600	730 1584
	Phosphorus	ppm	ASTM D5185m		1020	930	644
	Zinc	ppm	ASTM D5185m		1251	1223	782
	Sulfur	ppm	ASTM D5185m		3666	3660	2470
		PDIII	ווונסונט ועוו טא	4230	3000	3000	24/0
			*ACTM D7/11/	-25	17 2	16.2	1///
	Oxidation Base Number (BN)	Abs/.1mm	*ASTM D7414		17.3 7.5	16.2 9.6	14.4







Report Id: DOLWIL [WUSCAR] 06188416 (Generated: 05/28/2024 08:06:56) Rev: 1

Laboratory Sample No.

: WC0911126 Lab Number : 06188416

Unique Number : 11045168

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

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

: 22 May 2024 : 28 May 2024 Diagnosed : 28 May 2024 - Wes Davis

PO BOX 725, ATTN: MAINTENANCE AND REPAIR NEW CASTLE, DE US 19720 Contact: LUIS LAPIERRE

Test Package: FLEET (Additional Tests: FuelDilution, PercentFuel) Certificate L2367 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.

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Contact/Location: LUIS LAPIERRE - DOLWIL