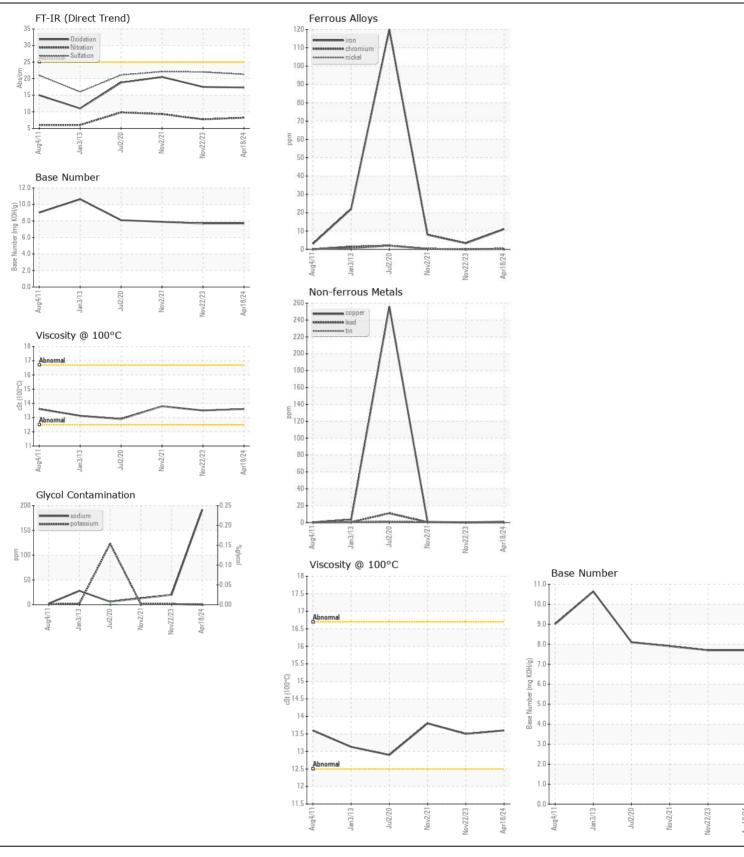
WEAR
CONTAMINATION
FLUID CONDITION

NORMAL NORMAL ATTENTION

Machine Id

## **DFGS103896**

DFGS103896 Component							
Diesel Engine							
{not provided} ( QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Check for low coolant level. Oil and filter 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	UOIVI	Client Info	LIIIII/ADII	WC0911069	WC0868868	WC0614688
	Sample Date		Client Info		18 Apr 2024	22 Nov 2023	02 Nov 2021
	Machine Age	hrs	Client Info		15697	18920	02 1404 2021
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed	1110	Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ATTENTION	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	11	3	8
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	0	<1
	Nickel	ppm	ASTM D5185m		0	0	<1
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m	>3	<1	0	<1
	Aluminum	ppm	ASTM D5185m	>20	4	4	4
	Lead	ppm	ASTM D5185m	>40	<1	0	<1
	Copper	ppm	ASTM D5185m	>330	1	<1	<1
	Tin	ppm	ASTM D5185m	>15	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		<1	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Ciliaan		ACTM DE10Em	. 05	c	4	4
CONTAMINATION	Silicon Potassium	ppm	ASTM D5185m ASTM D5185m		6 0	4	4
Sodium and/or potassium levels are high. Test for glycol is negative.	Fuel	ppm	WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol	%	*ASTM D2982	<i>&gt;</i> 0.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	<b>\3</b>	0.2	0.1	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	8.2	7.7	9.3
	Sulfation	Abs/.1mm	*ASTM D7415		21.3	22.0	22.1
	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	Sodium	ppm	ASTM D5185m		<b>192</b>	20	13
	Boron	ppm	ASTM D5185m		318	360	285
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		88	84	116
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		482	390	596
	Calcium	ppm	ASTM D5185m		1657	1379	1611
	Phosphorus	ppm	ASTM D5185m		1088	930	779
	Zinc	ppm	ASTM D5185m		1339	1194	908
	Sulfur	ppm	ASTM D5185m		3843	3051	2661
	Oxidation	Abs/.1mm	*ASTM D7414	>25	17.3	17.5	20.5
	Base Number (BN)	0 0			7.7	7.7	7.9
	Visc @ 100°C	cSt	ASTM D445		13.6	13.5	13.8







Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06188459

: WC0911069

Unique Number : 11045211 Test Package: FLEET (Additional Tests: Glycol)

Received **Tested** Diagnosed

: 22 May 2024 : 28 May 2024

: 28 May 2024 - Sean Felton

**DOLE FRESH FRUIT** PO BOX 725, ATTN: MAINTENANCE AND REPAIR

NEW CASTLE, DE US 19720

> Contact: LUIS LAPIERRE luis.lapierre@dole.com

T: (302)652-6344 F: (302)652-6061

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)