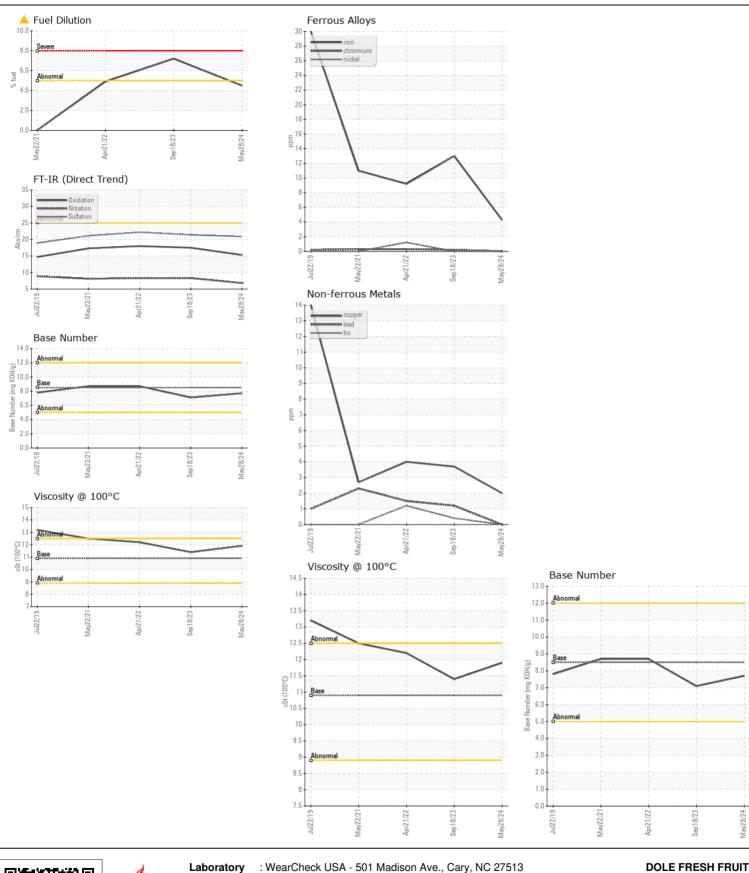
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL MARGINAL NORMAL

Machine Id

EASG1013012

Diesel Engine							
DIESEL ENGINE OIL SAE 30 (GAL)							
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. No other corrective action is recommended at this time. 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	OOW	Client Info	LITTIOTOTT	WC0911199		WC0668849
	Sample Date		Client Info		28 May 2024		21 Apr 2022
	Machine Age	hrs	Client Info		0	6110	4657
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	N/A
	Filter Changed		Client Info		Changed	Changed	N/A
	Sample Status				MARGINAL	ABNORMAL	ABNORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	4	13	9
	Chromium	ppm	ASTM D5185m	>20	0	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>4	0	0	1
	Titanium	ppm	ASTM D5185m		0	<1	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	2	3	2
	Lead	ppm	ASTM D5185m	>40	0	1	2
	Copper	ppm	ASTM D5185m	>330	2	4	4
	Tin	ppm	ASTM D5185m	>15	0	<1	1
	Vanadium	ppm	ASTM D5185m		0	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	4	5	4
CONTAININATION	Potassium	ppm	ASTM D5185m		1	<1	1
Light fuel dilution occurring. No other contaminants were detected in the oil.	Fuel	%	ASTM D3524		4.5	<u> </u>	4.9
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.1	0.2	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	6.8	8.3	8.3
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.9	21.4	22.2
	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	>75	1	2	2
	Boron	ppm	ASTM D5185m	250	396	303	385
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	10	0	0	0
	Molybdenum	ppm	ASTM D5185m	100	83	93	98
	Manganese	ppm	ASTM D5185m		0	<1	<1
	Magnesium	ppm	ASTM D5185m	450	390	425	470
	Calcium	ppm	ASTM D5185m	3000	1392	1483	1539
	Phosphorus	ppm	ASTM D5185m		1016	916	861
	Zinc	ppm		1350	1240	1168	1048
	Sulfur	ppm	ASTM D5185m		3671	2936	2570
	Oxidation	Abs/.1mm	*ASTM D7414		15.3	17.5	18.0
	Base Number (BN)	0 0	ASTM D2896		7.7	7.1	8.7
	Visc @ 100°C	cSt	ASTM D445	10.9	11.9	11.4	<u>▲</u> 12.2







Laboratory Sample No. Unique Number : 11128611

Lab Number : 06239777

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0911199

Received **Tested** Diagnosed

: 17 Jul 2024

: 18 Jul 2024

: 18 Jul 2024 - Wes Davis

PO BOX 725, ATTN: MAINTENANCE AND REPAIR

NEW CASTLE, DE US 19720 Contact: LUIS LAPIERRE

luis.lapierre@dole.com

T: (302)652-6344

Test Package: FLEET (Additional Tests: 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.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (302)652-6061

Contact/Location: LUIS LAPIERRE - DOLWIL