

Machine Id DFGS273177 Component Diesel Engine Fluid DIESEL ENGINE OIL SAE 15W40 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
RECOMMENDATION	Sample Number	UOIVI	Client Info	LITTICADI	WC0911070	WC0688930	WC0495907
Check for low coolant level. Oil and filter change at the time of	Sample Date		Client Info		17 Apr 2024	28 Apr 2022	06 Sep 2020
sampling has been noted. Resample at the next service interval to	Machine Age	hrs	Client Info		0	9411	7721
monitor.	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed	1115	Client Info		0 Changed	N/A	N/A
	Filter Changed		Client Info		Changed	N/A	N/A
	Sample Status				ATTENTION	ABNORMAL	ABNORMAL
							ADNOTIWAL
WEAR	Iron	ppm	ASTM D5185m	>100	17	26	71
	Chromium	ppm	ASTM D5185m	>20	1	2	20
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>4	<1	0	<1
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m	>3	<1	0	0
	Aluminum	ppm	ASTM D5185m	>20	7	11	4 5
	Lead	ppm	ASTM D5185m	>40	<1	1	0
	Copper	ppm	ASTM D5185m	>330	1	2	3
	Tin	ppm	ASTM D5185m	>15	1	1	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	nom	ASTM D5185m	> 25	6	6	7
CONTAMINATION	Potassium	ppm ppm	ASTM D5185m		3	2	3
Sodium and/or potassium levels are high.	Fuel	ррп	WC Method		-1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol	%	*ASTM D2982	20.2	NEG	NEG	▲ 0.06
	Soot %	%	*ASTM D7844	~3	0.1	0.2	0.1
	Nitration	Abs/cm		>20	7.9	8.9	10
	Sulfation	Abs/.1mm	*ASTM D7415		20.9	21.8	21.7
	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		70	▲ 372	▲ 398
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		387	345	340
oil. The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185m		0	0	<1
·	Molybdenum	ppm	ASTM D5185m	100	88	95	115
	Manganese	ppm	ASTM D5185m	450	<1	<1	<1
	Magnesium	ppm	ASTM D5185m		498	440	499
	Calcium	ppm	ASTM D5185m		1440	1563	1491
	Phosphorus	ppm	ASTM D5185m		1021	852	713
	Zinc	ppm	ASTM D5185m		1324	1085	907
	Sulfur	ppm	ASTM D5185m	4250	3556	3558	2209

Oxidation

Visc @ 100°C cSt

18.4

8.2

13.9

19.1

9.2

13.5

17.0

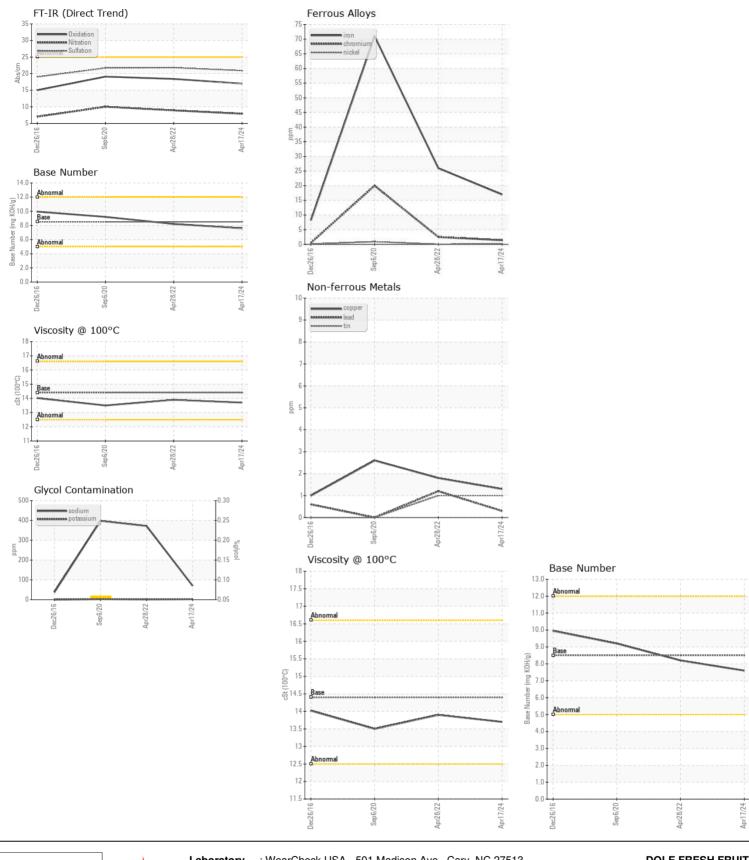
7.6

13.7

Abs/.1mm *ASTM D7414 >25

ASTM D445 14.4

Base Number (BN) mg KOH/g ASTM D2896 8.5



DOLE FRESH FRUIT Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : WC0911070 Received PO BOX 725, ATTN: MAINTENANCE AND REPAIR : 22 May 2024 Lab Number : 06188486 Tested NEW CASTLE, DE : 28 May 2024 : 28 May 2024 - Sean Felton US 19720 Unique Number : 11045238 Diagnosed Test Package : FLEET (Additional Tests: Glycol) Contact: LUIS LAPIERRE Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. luis.lapierre@dole.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (302)652-6344 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (302)652-6061

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Contact/Location: LUIS LAPIERRE - DOLWIL Page 2 of 2