WEAR CONTAMINATION **FLUID CONDITION**

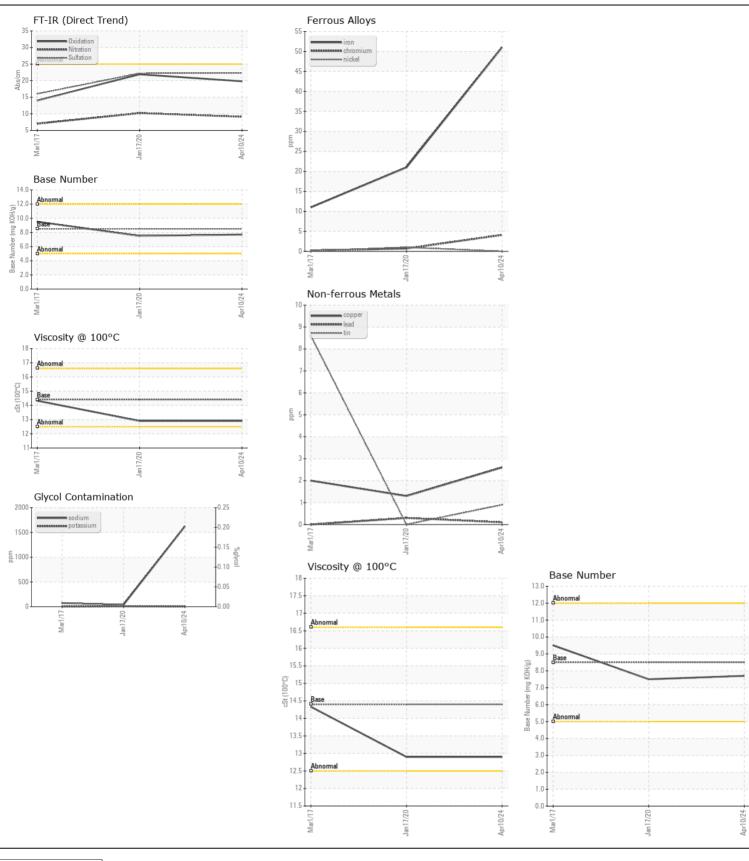
NORMAL NORMAL ABNORMAL

Machine Id

DFGS 273183

Component
Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Number		Client Info		WC0911062	,	WCMFB71253
	Sample Date		Client Info		10 Apr 2024	17 Jan 2020	01 Mar 2017
	Machine Age	hrs	Client Info		12573	8001	5387
	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				ABNORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	51	21	11
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	4	<1	<1
	Nickel	ppm	ASTM D5185m	>4	0	1	<1
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m	>3	<1	0	0
	Aluminum	ppm	ASTM D5185m	>20	14	17	4
	Lead	ppm	ASTM D5185m	>40	<1	<1	0
	Copper	ppm	ASTM D5185m	>330	3	1	2
	Tin	ppm	ASTM D5185m	>15	<1	0	9
	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	ppm	ASTM D5185m	>25	8	5	5
	Potassium	ppm	ASTM D5185m	>20	1	8	0
Sodium and/or potassium levels are high.	Fuel		WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol	%	*ASTM D2982		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.1	0.1	0
	Nitration	Abs/cm	*ASTM D7624	>20	9.1	10.2	7.
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.3	22.2	16.
	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	>158	1622	38	73
	Boron	ppm	ASTM D5185m	250	469	283	342
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185m	10	0	0	0
	Molybdenum	ppm	ASTM D5185m	100	95	119	92
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m	450	419	556	371
	Calcium	ppm	ASTM D5185m	3000	1638	1517	1560
	Phosphorus	ppm	ASTM D5185m		1052	655	1004
	Zinc	ppm	ASTM D5185m		1317	813	1187
	Sulfur	ppm	ASTM D5185m		3826	2119	2874
	Oxidation	Abs/.1mm	*ASTM D7414		19.8	21.9	14.
	Base Number (BN)		ASTM D2896		7.7	7.5	9.51
	Visc @ 100°C	cSt	ASTM D445	14.4	12.9	12.9	14.33







Laboratory Sample No.

Lab Number : 06188410

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0911062

Unique Number : 11045162

Received **Tested** Diagnosed

: 22 May 2024 : 28 May 2024

: 28 May 2024 - Jonathan Hester

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

Test Package : FLEET (Additional Tests: Glycol) 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