OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
EASG1013162
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 30 (--- GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. 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.

WEAR

All component wear rates are normal.

CONTAMINATION

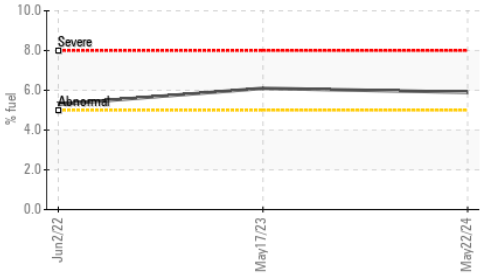
There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

FLUID CONDITION

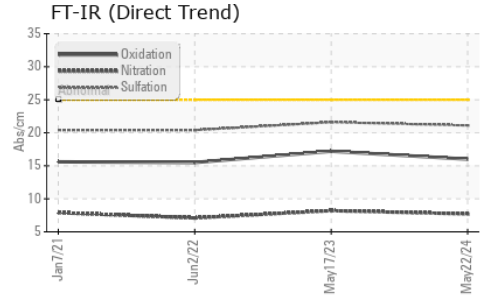
The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0911073	WC0814674	WC0688833
Sample Date		Client Info		22 May 2024	17 May 2023	02 Jun 2022
Machine Age	hrs	Client Info		7805	6275	4773
Oil Age	hrs	Client Info		7805	0	0
Filter Age	hrs	Client Info		7805	0	0
Oil Changed		Client Info		Changed	N/A	N/A
Filter Changed		Client Info		Changed	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>100	6	9	8
Chromium	ppm	ASTM D5185m	>20	0	0	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	2	7	2
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	<1	2	3
Tin	ppm	ASTM D5185m	>15	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	7	3	4
Potassium	ppm	ASTM D5185m	>20	0	0	1
Fuel	%	ASTM D3524	>5	▲ 5.9	▲ 6.1	▲ 5.3
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	7.7	8.2	7.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.1	21.6	20.4
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	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
Sodium	ppm	ASTM D5185m	>75	19	2	0
Boron	ppm	ASTM D5185m	250	444	335	363
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	91	84	91
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	450	406	398	401
Calcium	ppm	ASTM D5185m	3000	1521	1491	1455
Phosphorus	ppm	ASTM D5185m	1150	1043	901	925
Zinc	ppm	ASTM D5185m	1350	1252	1182	1158
Sulfur	ppm	ASTM D5185m	4250	3686	3464	3575
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.0	17.2	15.5
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.0	7.0	7.1
Visc @ 100°C	cSt	ASTM D445	10.9	11.4	11.1	▲ 12.0

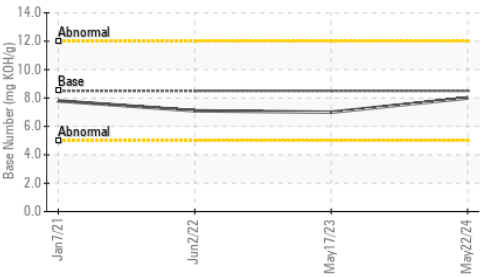
Fuel Dilution



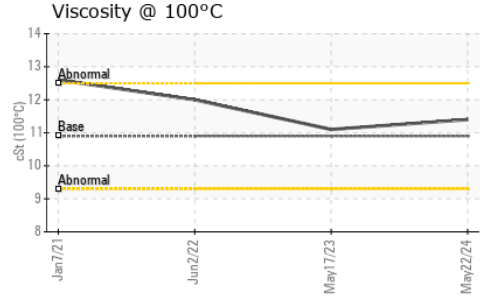
FT-IR (Direct Trend)



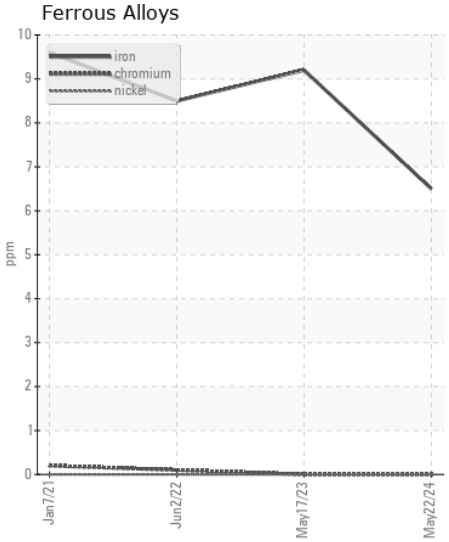
Base Number



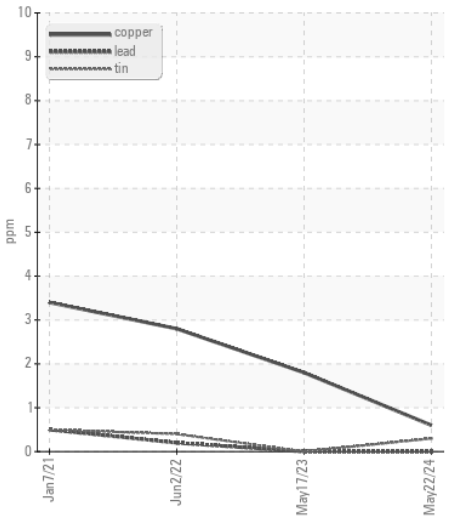
Viscosity @ 100°C



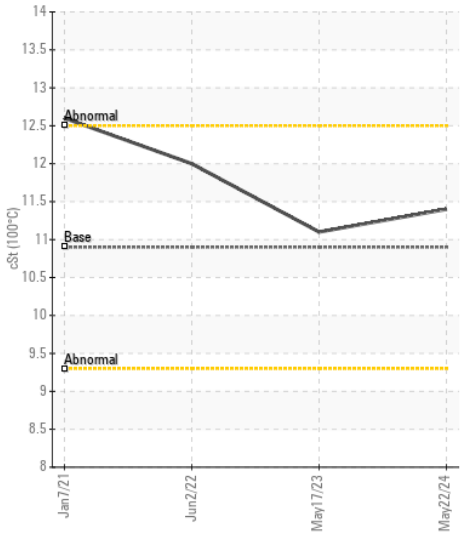
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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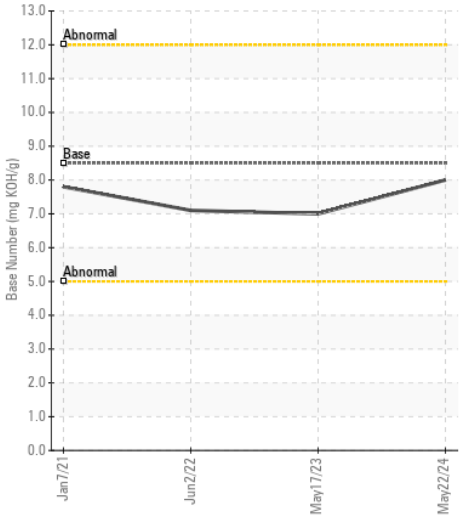

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0911073 **Received** : 22 May 2024
Lab Number : 06188458 **Tested** : 28 May 2024
Unique Number : 11045210 **Diagnosed** : 28 May 2024 - Wes Davis
Test Package : FLEET (Additional Tests: PercentFuel)

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)

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