



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ABNORMAL

Machine Id
SZLG730244
 Component
Diesel Engine
 Fluid
{not provided} (--- GAL)

RECOMMENDATION

We recommend that you drain the oil from the component if this has not already been done. 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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0911134	WC0814711	WC0495828
Sample Date		Client Info		03 May 2024	22 Jun 2023	03 Nov 2020
Machine Age	hrs	Client Info		6430	4917	1506
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	Changed
Filter Changed		Client Info		N/A	N/A	Changed
Sample Status				ABNORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	7	12	10
Chromium	ppm	ASTM D5185m	>20	0	<1	0
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m		0	2	12
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	2	2	5
Lead	ppm	ASTM D5185m	>40	<1	<1	0
Copper	ppm	ASTM D5185m	>330	1	5	13
Tin	ppm	ASTM D5185m	>15	<1	0	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

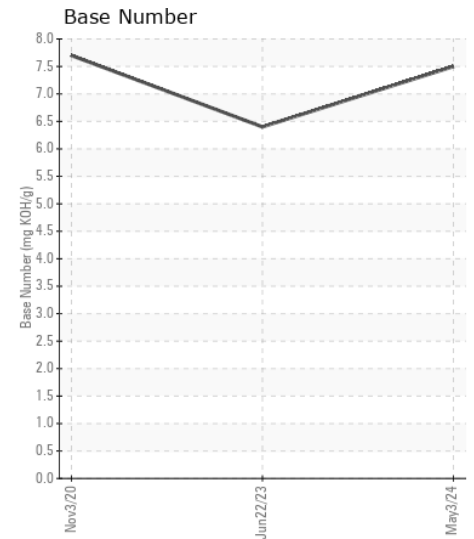
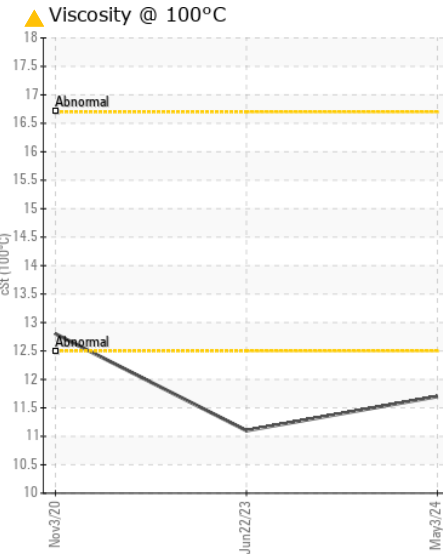
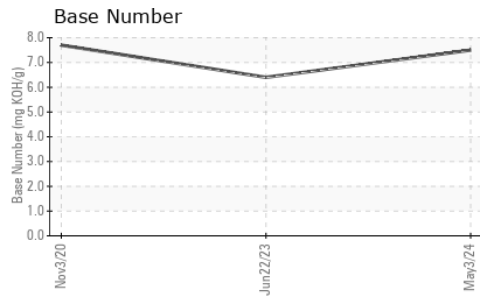
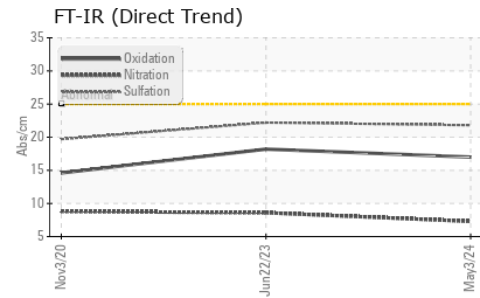
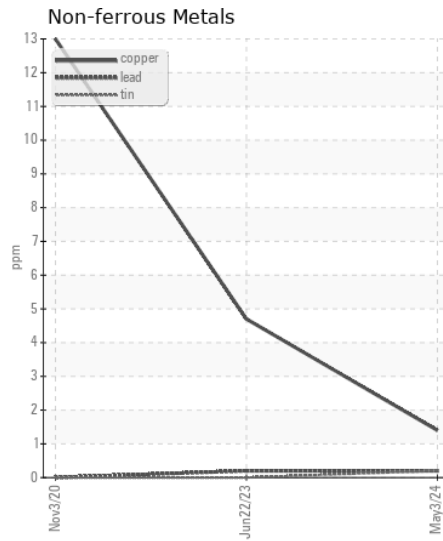
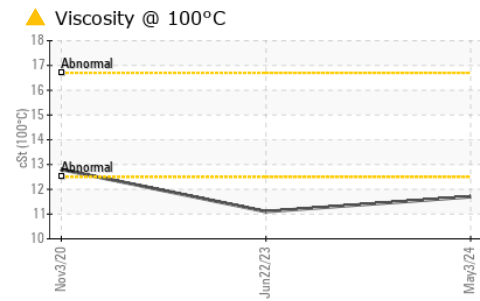
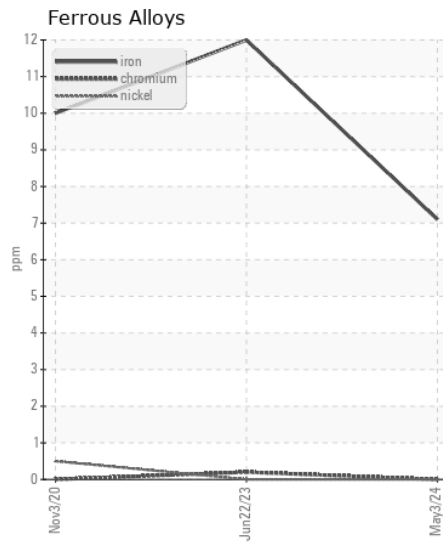
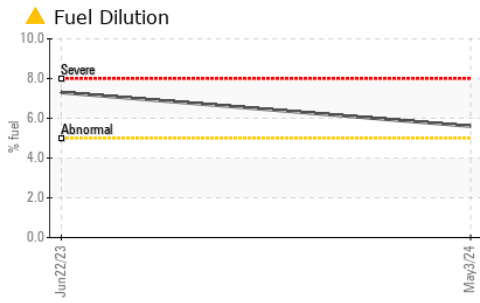
There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

Silicon	ppm	ASTM D5185m	>25	4	4	5
Potassium	ppm	ASTM D5185m	>20	0	<1	4
Fuel	%	ASTM D3524	>5	▲ 5.6	▲ 7.3	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.1	0.2	0.1
Nitration	Abs/cm	*ASTM D7624	>20	7.3	8.6	8.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.8	22.2	19.7
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

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

Sodium	ppm	ASTM D5185m		2	4	3
Boron	ppm	ASTM D5185m		417	300	116
Barium	ppm	ASTM D5185m		0	2	0
Molybdenum	ppm	ASTM D5185m		86	76	44
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		382	396	674
Calcium	ppm	ASTM D5185m		1632	1344	1522
Phosphorus	ppm	ASTM D5185m		1049	867	659
Zinc	ppm	ASTM D5185m		1254	1083	774
Sulfur	ppm	ASTM D5185m		3640	2921	2315
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.0	18.2	14.6
Base Number (BN)	mg KOH/g	ASTM D2896		7.5	6.4	7.7
Visc @ 100°C	cSt	ASTM D445		▲ 11.7	▲ 11.1	12.8



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0911134 **Received** : 22 May 2024
Lab Number : 06188422 **Tested** : 28 May 2024
Unique Number : 11045174 **Diagnosed** : 28 May 2024 - Wes Davis
Test Package : FLEET (Additional Tests: PercentFuel)

DOLE FRESH FRUIT
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 NEW CASTLE, DE
 US 19720
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 T: (302)652-6344
 F: (302)652-6061

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)