FLEET LUBE 360 OIL DIAGNOSTICS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	ABNORMAL

Machine Id
1409
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 15W40 (--- QTS)

RECOMMENDATION

We advise that you check the fuel injection system. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition.

WEAR

All component wear rates are normal.

CONTAMINATION

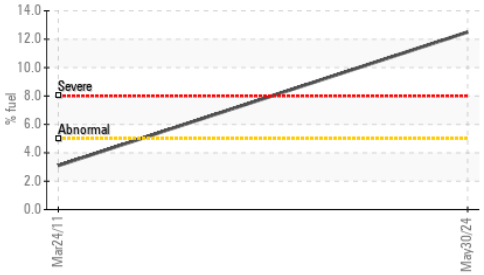
There is a high amount of fuel present in the oil.

FLUID CONDITION

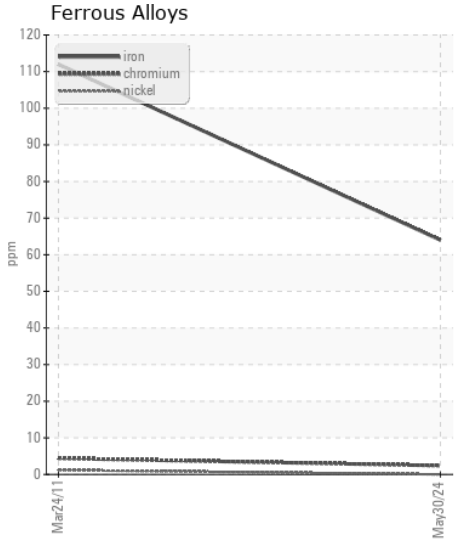
Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0118006	WCMF904302	---
Sample Date		Client Info		30 May 2024	24 Mar 2011	---
Machine Age	mls	Client Info		0	363413	---
Oil Age	mls	Client Info		0	363413	---
Filter Age	mls	Client Info		0	300	---
Oil Changed		Client Info		N/A	Not Changd	---
Filter Changed		Client Info		N/A	Not Changd	---
Sample Status				SEVERE	ABNORMAL	---
Iron	ppm	ASTM D5185m	>100	64	112	---
Chromium	ppm	ASTM D5185m	>20	2	4	---
Nickel	ppm	ASTM D5185m	>4	0	1	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m	>3	0	0	---
Aluminum	ppm	ASTM D5185m	>20	8	2	---
Lead	ppm	ASTM D5185m	>40	10	12	---
Copper	ppm	ASTM D5185m	>330	3	28	---
Tin	ppm	ASTM D5185m	>15	<1	5	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>25	12	8	---
Potassium	ppm	ASTM D5185m	>20	5	4	---
Fuel	%	ASTM D3524	>5	▲ 12.5	▲ 3.1	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.4	▲ 5.8	---
Nitration	Abs/cm	*ASTM D7624	>20	12.1	13.	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.4	35.	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	---
Sodium	ppm	ASTM D5185m	>158	18	5	---
Boron	ppm	ASTM D5185m	250	53	8	---
Barium	ppm	ASTM D5185m	10	0	<1	---
Molybdenum	ppm	ASTM D5185m	100	7	66	---
Manganese	ppm	ASTM D5185m		1	2	---
Magnesium	ppm	ASTM D5185m	450	101	691	---
Calcium	ppm	ASTM D5185m	3000	1810	1201	---
Phosphorus	ppm	ASTM D5185m	1150	834	904	---
Zinc	ppm	ASTM D5185m	1350	986	1029	---
Sulfur	ppm	ASTM D5185m	4250	3261	2218	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	26.1	22.	---
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	4.0	6.3	---
Visc @ 100°C	cSt	ASTM D445	14.4	▲ 10.6	15.83	---

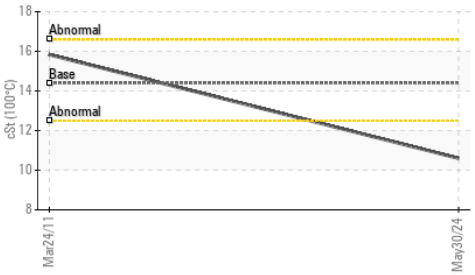
Fuel Dilution



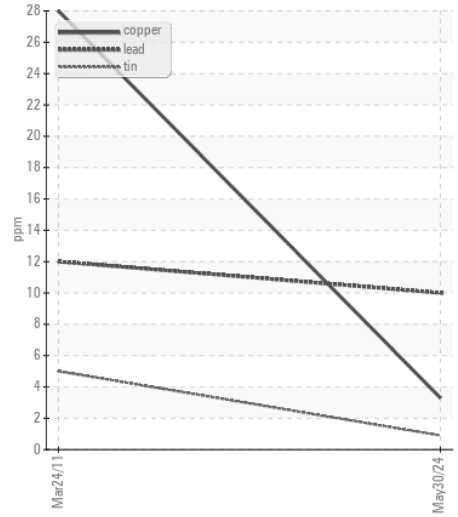
Ferrous Alloys



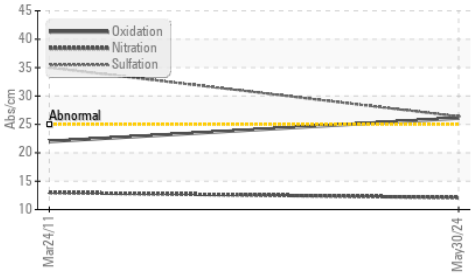
Viscosity @ 100°C



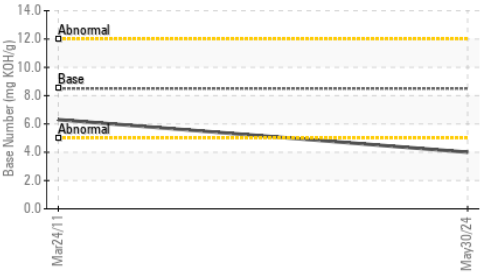
Non-ferrous Metals



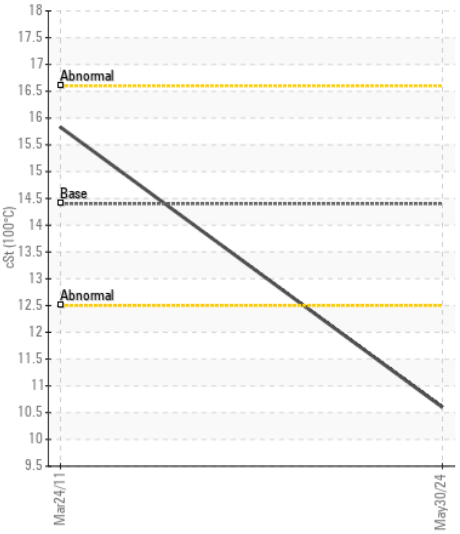
FT-IR (Direct Trend)



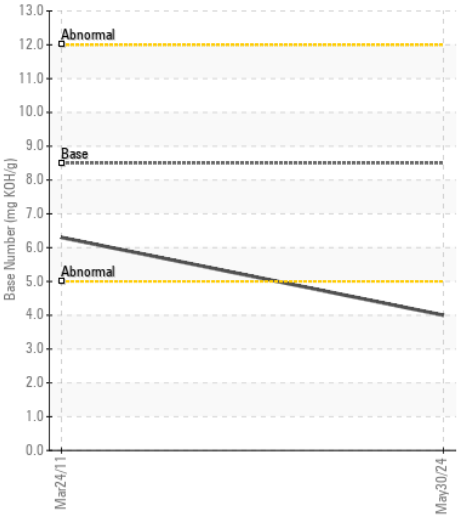
Base Number



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0118006
Lab Number : 06196466
Unique Number : 11058589
Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel)

Received : 31 May 2024
Tested : 05 Jun 2024
Diagnosed : 05 Jun 2024 - Don Baldridge

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)

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