FLEET LUBE 360 OIL DIAGNOSTICS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
834009
Component
Natural Gas Engine
Fluid
{not provided} (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. 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

Metal levels are typical for a new component breaking in.

CONTAMINATION

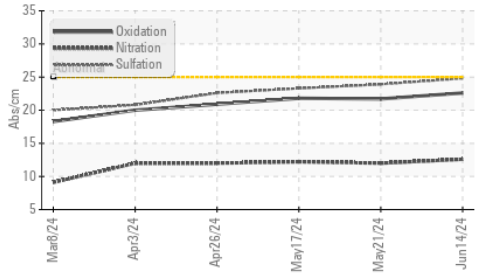
There is no indication of any contamination in the oil.

FLUID CONDITION

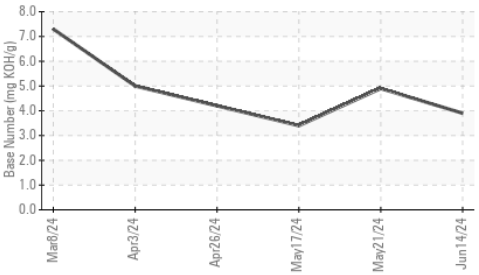
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0122080	GFL0116589	GFL0122043
Sample Date		Client Info		14 Jun 2024	21 May 2024	17 May 2024
Machine Age	hrs	Client Info		817	651	617
Oil Age	hrs	Client Info		166	651	617
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Filter Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>50	45	50	41
Chromium	ppm	ASTM D5185m	>4	1	2	<1
Nickel	ppm	ASTM D5185m	>2	2	2	<1
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	<1	1	<1
Aluminum	ppm	ASTM D5185m	>9	8	8	6
Lead	ppm	ASTM D5185m	>30	2	2	1
Copper	ppm	ASTM D5185m	>35	16	20	16
Tin	ppm	ASTM D5185m	>4	2	2	1
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>+100	27	32	29
Potassium	ppm	ASTM D5185m	>20	16	17	11
Water		WC Method	>0.1	NEG	NEG	NEG
Soot %	%	*ASTM D7844		0	0.4	0
Nitration	Abs/cm	*ASTM D7624	>20	12.6	12.0	12.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.8	23.9	23.3
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	>0.1	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m		6	4	4
Boron	ppm	ASTM D5185m		9	8	6
Barium	ppm	ASTM D5185m		4	3	4
Molybdenum	ppm	ASTM D5185m		59	62	55
Manganese	ppm	ASTM D5185m		13	14	13
Magnesium	ppm	ASTM D5185m		897	838	793
Calcium	ppm	ASTM D5185m		1406	1440	1372
Phosphorus	ppm	ASTM D5185m		868	768	711
Zinc	ppm	ASTM D5185m		1081	1037	940
Sulfur	ppm	ASTM D5185m		3041	2615	2650
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.6	21.7	21.8
Base Number (BN)	mg KOH/g	ASTM D2896		3.9	4.9	3.4
Visc @ 100°C	cSt	ASTM D445		14.6	14.4	14.5

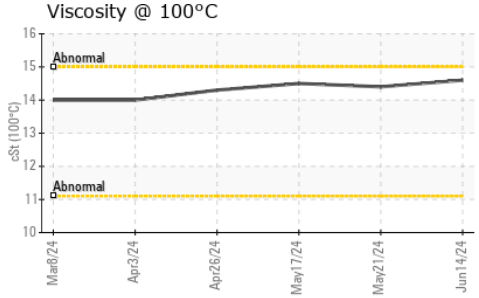
FT-IR (Direct Trend)



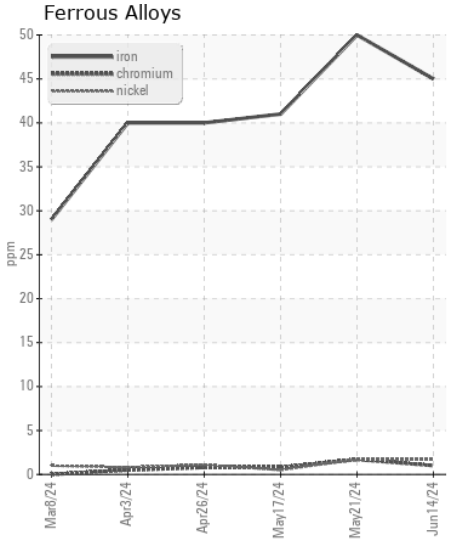
Base Number



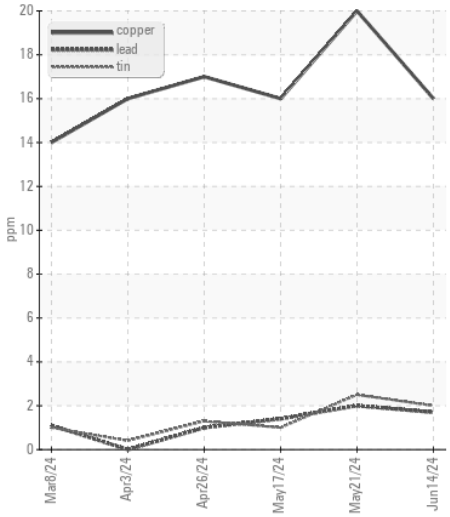
Viscosity @ 100°C



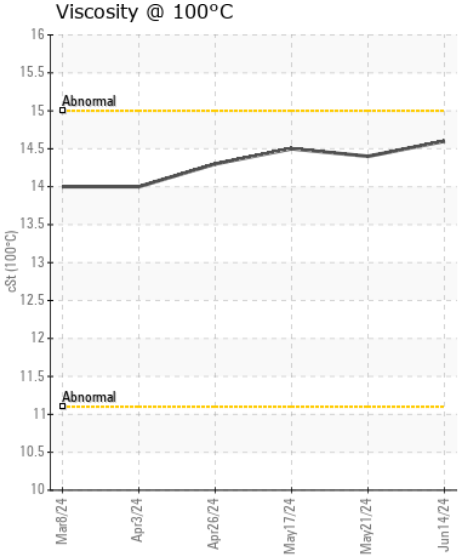
Ferrous Alloys



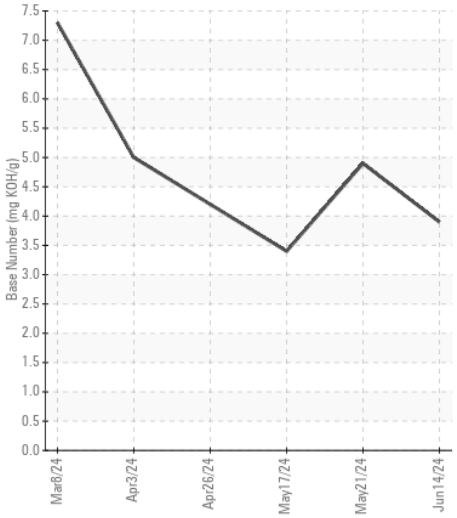
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0122080
Lab Number : 06213255
Unique Number : 11086119
Test Package : FLEET

Received : 18 Jun 2024
Tested : 19 Jun 2024
Diagnosed : 19 Jun 2024 - Wes Davis

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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