



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

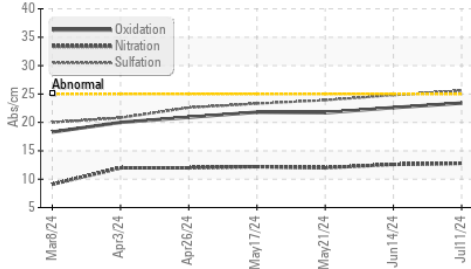
There is no indication of any contamination in the oil.

FLUID CONDITION

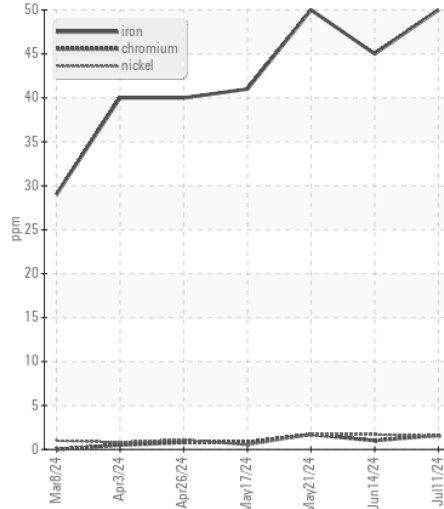
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0127189	GFL0122080	GFL0116589
Sample Date		Client Info		11 Jul 2024	14 Jun 2024	21 May 2024
Machine Age	hrs	Client Info		988	817	651
Oil Age	hrs	Client Info		822	166	651
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Filter Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>50	50	45	50
Chromium	ppm	ASTM D5185m	>4	2	1	2
Nickel	ppm	ASTM D5185m	>2	2	2	2
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	<1	<1	1
Aluminum	ppm	ASTM D5185m	>9	7	8	8
Lead	ppm	ASTM D5185m	>30	2	2	2
Copper	ppm	ASTM D5185m	>35	18	16	20
Tin	ppm	ASTM D5185m	>4	2	2	2
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>+100	25	27	32
Potassium	ppm	ASTM D5185m	>20	16	16	17
Water		WC Method	>0.1	NEG	NEG	NEG
Soot %	%	*ASTM D7844		0	0	0.4
Nitration	Abs/cm	*ASTM D7624	>20	12.8	12.6	12.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.6	24.8	23.9
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		<1	6	4
Boron	ppm	ASTM D5185m		6	9	8
Barium	ppm	ASTM D5185m		4	4	3
Molybdenum	ppm	ASTM D5185m		67	59	62
Manganese	ppm	ASTM D5185m		13	13	14
Magnesium	ppm	ASTM D5185m		845	897	838
Calcium	ppm	ASTM D5185m		1494	1406	1440
Phosphorus	ppm	ASTM D5185m		765	868	768
Zinc	ppm	ASTM D5185m		1078	1081	1037
Sulfur	ppm	ASTM D5185m		2260	3041	2615
Oxidation	Abs/.1mm	*ASTM D7414	>25	23.4	22.6	21.7
Base Number (BN)	mg KOH/g	ASTM D2896		3.8	3.9	4.9
Visc @ 100°C	cSt	ASTM D445		14.7	14.6	14.4

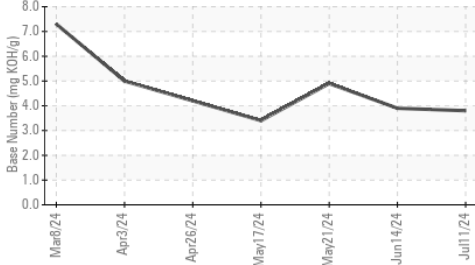
FT-IR (Direct Trend)



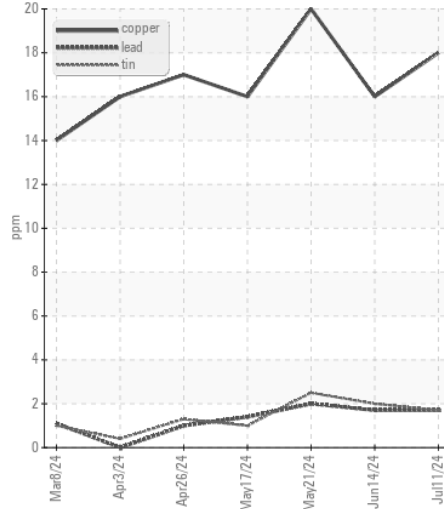
Ferrous Alloys



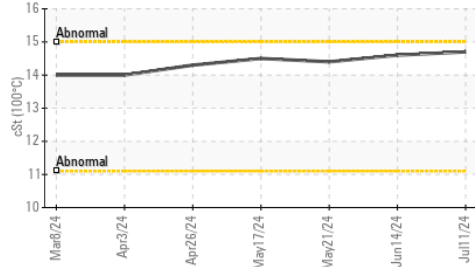
Base Number



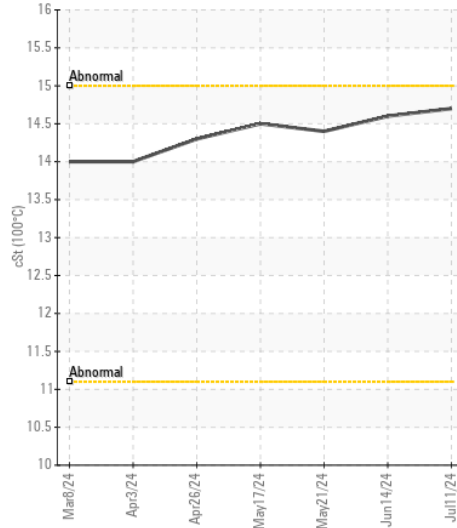
Non-ferrous Metals



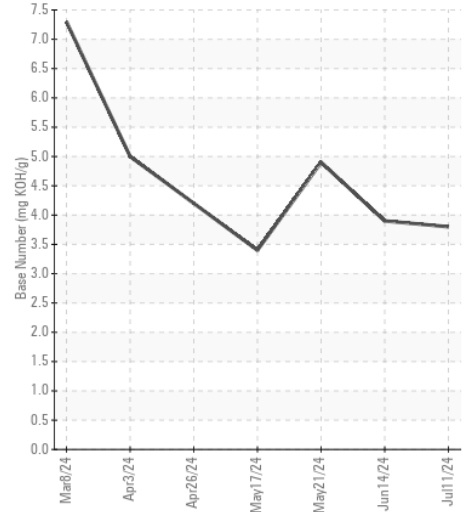
Viscosity @ 100°C



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0127189
Lab Number : 06235560
Unique Number : 11124394
Test Package : FLEET

Received : 15 Jul 2024
Tested : 15 Jul 2024
Diagnosed : 15 Jul 2024 - Wes Davis

GFL Environmental - 652 - Fredericksburg Hauling
 10954 Houser Drive
 Fredericksburg, VA
 US 22408
 Contact: WILLIAM MILO
 wmilo@gflenv.com

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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F: