



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
GEN#5 (S/N 5645414)
 Component
Diesel Engine
 Fluid
MOBIL DELVAC SUPER 1400 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TLY0002256	TLY0001743	TLY0001236
Sample Date		Client Info		30 Jan 2024	26 Jun 2023	10 Dec 2022
Machine Age	hrs	Client Info		8095	7121	7220
Oil Age	hrs	Client Info		12731	500	500
Filter Age	hrs	Client Info		12731	500	500
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	15	7	9
Chromium	ppm	ASTM D5185m	>20	<1	<1	0
Nickel	ppm	ASTM D5185m	>4	1	<1	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	1	2
Lead	ppm	ASTM D5185m	>40	24	9	21
Copper	ppm	ASTM D5185m	>330	6	<1	<1
Tin	ppm	ASTM D5185m	>15	1	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

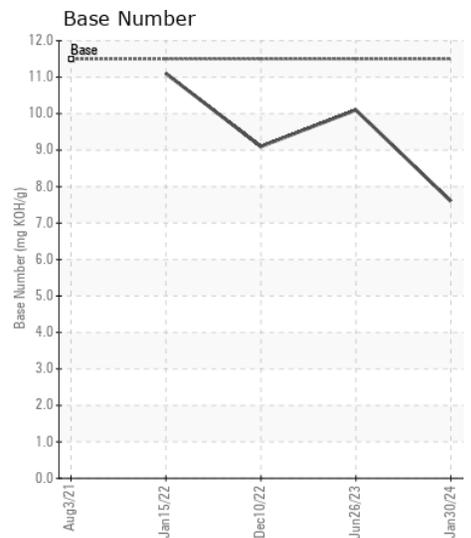
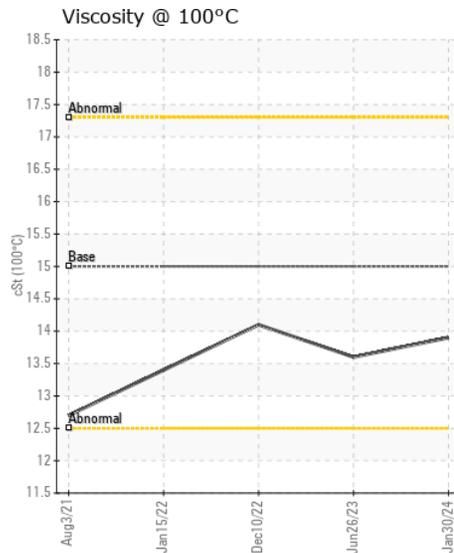
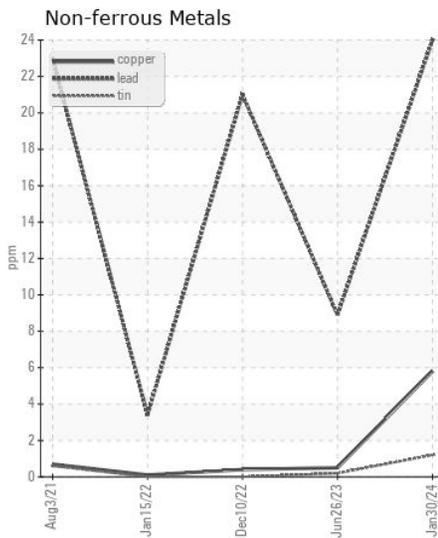
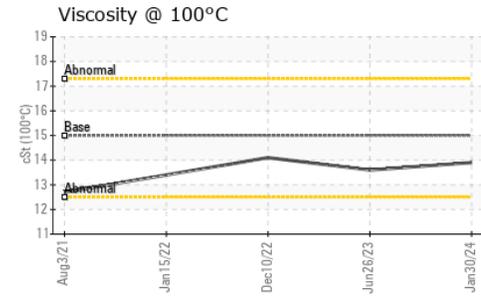
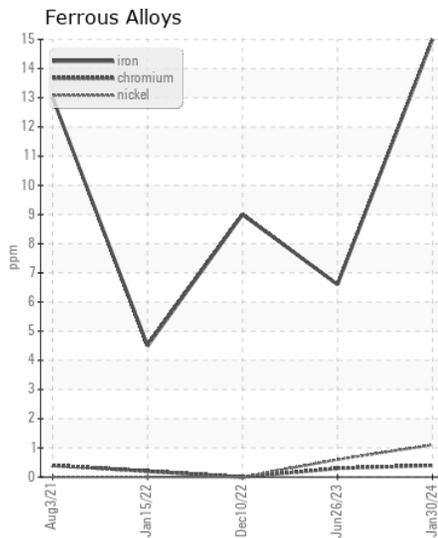
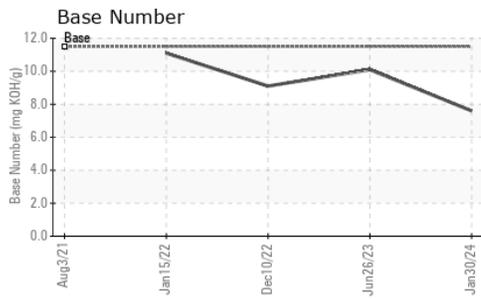
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	5	4	5
Potassium	ppm	ASTM D5185m	>20	2	1	0
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	13.5	8.7	11.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.7	21.6	22.0
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. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		0	2	3
Boron	ppm	ASTM D5185m		47	51	44
Barium	ppm	ASTM D5185m		13	0	0
Molybdenum	ppm	ASTM D5185m		62	57	50
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		650	648	707
Calcium	ppm	ASTM D5185m		1798	1546	1758
Phosphorus	ppm	ASTM D5185m		920	874	909
Zinc	ppm	ASTM D5185m		1117	1048	1158
Sulfur	ppm	ASTM D5185m		3126	2716	3160
Oxidation	Abs/.1mm	*ASTM D7414	>25	30.2	21.0	24.2
Base Number (BN)	mg KOH/g	ASTM D2896	11.5	7.6	10.1	9.1
Visc @ 100°C	cSt	ASTM D445	15.0	13.9	13.6	14.1



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TLY0002256 **Received** : 12 Feb 2024
Lab Number : 06086577 **Tested** : 13 Feb 2024
Unique Number : 10874022 **Diagnosed** : 13 Feb 2024 - Don Baldrige
Test Package : CONST (Additional Tests: TBN)

GAINES & COMPANY
 112 WESTMINSTER RD
 REISTERSTOWN, MD
 US 21136
 Contact: LANCE TANCRAITOR
 ltancraitor@gainesandco.com
 T: (410)833-9833
 F:

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)