

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area (24564UA)
Machine Id 819013
Component

Diesel Engine

DIESEL ENGINE OIL SAE 40 (--- GAL)



DIAGNOSIS Recommendation

oil on your next sample.

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

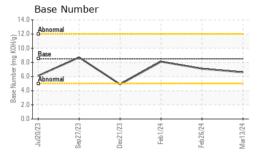
Fluid Condition

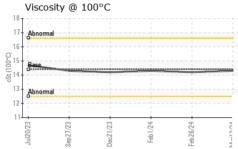
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

,		Jul2023	Sep2023 Dec2023	Feb2024 Feb2024	Mar2024	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0111889	GFL0111849	GFL0108258
Sample Date		Client Info		13 Mar 2024	26 Feb 2024	01 Feb 2024
Machine Age	hrs	Client Info		10829	10724	10566
Oil Age	hrs	Client Info		10829	10724	10566
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	28	20	12
Chromium	ppm	ASTM D5185m		<1	<1	<1
Nickel		ASTM D5185m	>5	0	<1	0
Titanium	ppm	ASTM D5185m		∪ <1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
	ppm					4
Aluminum	ppm	ASTM D5185m		8	6	
Lead	ppm	ASTM D5185m	>40	3	2	<1
Copper	ppm	ASTM D5185m		3	3	<1
Tin	ppm	ASTM D5185m	>15	<1	1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	8	8	11
Barium	ppm	ASTM D5185m	10	0	1	0
Molybdenum	ppm	ASTM D5185m	100	68	63	56
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	450	1045	925	908
Calcium	ppm	ASTM D5185m	3000	1277	1110	993
Phosphorus	ppm	ASTM D5185m	1150	1222	1058	995
Zinc	ppm	ASTM D5185m	1350	1377	1251	1217
Sulfur	ppm	ASTM D5185m	4250	3389	3262	2943
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	18	13	9
Sodium	ppm	ASTM D5185m	>216	1	1	1
Potassium	ppm	ASTM D5185m	>20	7	6	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.6	0.5	0.3
Nitration	Abs/cm	*ASTM D7624	>20	9.8	8.9	7.1
Sulfation	Abs/.1mm	*ASTM D7415		21.4	20.5	19.1
FLUID DEGRA	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.4	16.0	14.3
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	6.6	7.1	8.1
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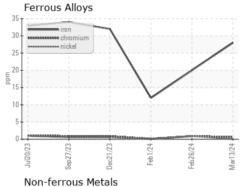


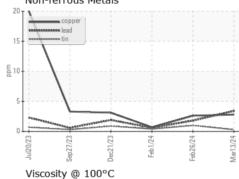


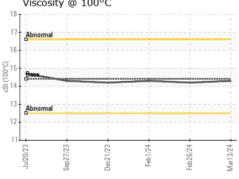
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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
Free Water	scalar	*Visual		NEG	NEG	NEG

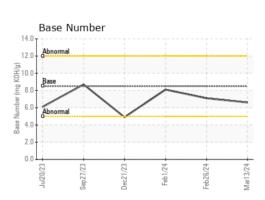
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	14.4	14.3	14.2	14.3

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number : 06120648 Unique Number : 10929481

Test Package : FLEET

: GFL0111889

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested**

: 18 Mar 2024 Diagnosed

: 19 Mar 2024 : 19 Mar 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)

Report Id: GFL652 [WUSCAR] 06120648 (Generated: 03/19/2024 17:23:48) Rev: 1

Submitted By: TECHNICIAN ACCOUNT

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