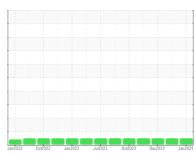


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **812033**

Component **Diesel Engine**

DIESEL ENGINE OIL SAE 15W40 (--- Shots)

DIAGNOSIS

Recommendation

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

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

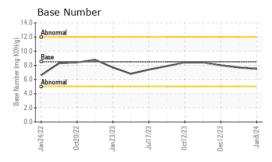
Fluid Condition

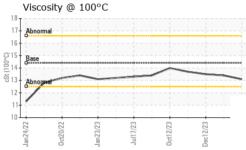
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

January 22 October 3 January 3 July 23 October 3 January 3 July 24 January 3 July 24 January 3 J						
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0107954	GFL0107946	GFL0102558
Sample Date		Client Info		08 Jan 2024	30 Dec 2023	12 Dec 2023
Machine Age	hrs	Client Info		5237	5179	5059
Oil Age	hrs	Client Info		600	0	0
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	>5	<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	>100	4	5	4
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	3	4	3
Lead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm	ASTM D5185m	>330	<1	<1	0
Tin	ppm	ASTM D5185m	>15	0	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	1	3	3
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	55	60	58
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	450	944	986	961
Calcium	ppm	ASTM D5185m	3000	1037	1063	1046
Phosphorus	ppm	ASTM D5185m	1150	939	1095	1039
Zinc	ppm	ASTM D5185m	1350	1270	1334	1291
Sulfur	ppm	ASTM D5185m	4250	2780	3139	3102
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	3	3
Sodium	ppm	ASTM D5185m	>158	1	2	0
Potassium	ppm	ASTM D5185m	>20	2	3	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	7.8	7.5	6.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.3	19.3	18.9
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.2	14.8	14.5
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.5	7.7	8.0



OIL ANALYSIS REPORT

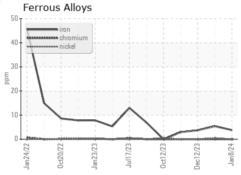


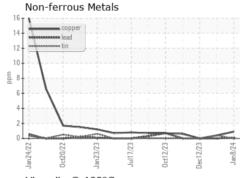


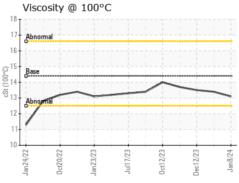
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

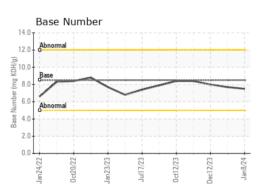
FLUID PROPE	EKIIES	method	ilmit/base		nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	14.4	13.1	13.4	13.5

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number

: GFL0107954 : 06057700 Unique Number : 10823649 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 11 Jan 2024

Diagnosed : 11 Jan 2024 Diagnostician : Wes Davis

405 East Airport Industrial Road Pauls Valley, OK US 73075

Contact: Tony Graham tgraham2@wcamerica.com T:

GFL Environmental - 892 - Pauls Valley Hauling

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: GFL892 [WUSCAR] 06057700 (Generated: 01/11/2024 15:35:52) Rev: 1

Contact/Location: Tony Graham - GFL892

F: