

OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id **429021-1210**

Component

Diesel Engine OTR/15W30 (--- GAL)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

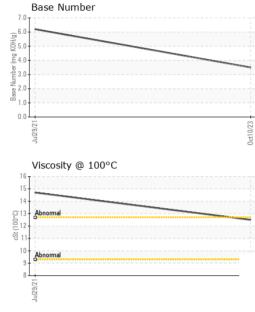
Fluid Condition

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

			Jul2021	0ct2023		
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0054137	GFL0029276	
Sample Date		Client Info		10 Oct 2023	29 Jul 2021	
Machine Age	hrs	Client Info		7051	600	
Oil Age	hrs	Client Info		600	600	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
Glycol		WC Method		NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	98	29	
Chromium	ppm	ASTM D5185m	>20	4	<1	
Nickel	ppm	ASTM D5185m	>4	- <1	<1	
Titanium	ppm	ASTM D5185m		<1	5	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>20	11	7	
Lead	ppm	ASTM D5185m	>40	17	<1	
Copper	ppm	ASTM D5185m	>330	3	2	
Tin	ppm	ASTM D5185m	>15	2	<1	
Antimony	ppm	ASTM D5185m			0	
Vanadium	ppm	ASTM D5185m		<1	<1	
Cadmium	ppm	ASTM D5185m		<1	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	8	
Barium	ppm	ASTM D5185m		4	0	
Molybdenum	ppm	ASTM D5185m		60	66	
Manganese	ppm	ASTM D5185m		2	<1	
Magnesium	ppm	ASTM D5185m		903	1002	
Calcium	ppm	ASTM D5185m		1038	1231	
Phosphorus	ppm	ASTM D5185m		891	1111	
Zinc	ppm	ASTM D5185m		1126	1275	
Sulfur	ppm	ASTM D5185m		2365	2981	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	11	6	
Sodium	ppm	ASTM D5185m		5	2	
Potassium	ppm	ASTM D5185m	>20	19	18	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.9	0.7	
Nitration	Abs/cm	*ASTM D7624	>20	13.4	11.9	
Sulfation	Abs/.1mm	*ASTM D7415	>30	29.7	25.5	
FLUID DEGRA	DAT <u>ION</u>	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	29.8	22.1	
Base Number (BN)	mg KOH/g	ASTM D2896	<i>></i> L0	3.5	6.2	
Dasc Number (DIN)	mg Norry	7.0 HVI D2030		3.3	0.2	



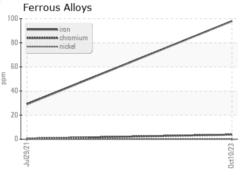
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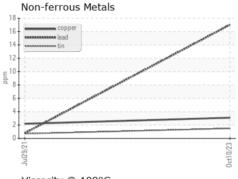


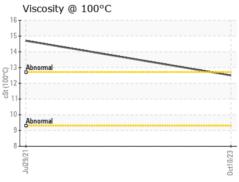
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	

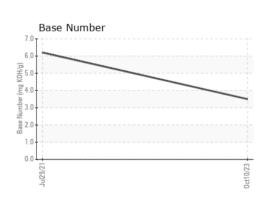
FLUID FROF	EULIES	memou		HISTOLAL	HISTOLA
Visc @ 100°C	cSt	ASTM D445	12.5	14.7	

GRAPHS











Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10697562 Test Package : FLEET

: GFL0054137 : 05980267

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received Diagnosed Diagnostician : Angela Borella

: 16 Oct 2023 : 18 Oct 2023 GFL Environmental - 630 - Northern A1 PA 117 Moonlite Dr

Smithfield, PA US 15478 Contact: MIKE NEWMAN miken@northerna1.com

T: (231)564-2362

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)