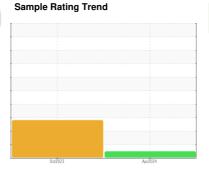


OIL ANALYSIS REPORT

(YA167395) GFL035 724028

Diesel Engine

DIESEL ENGINE OIL SAE 40 (42 QTS)





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm.

All component wear rates are normal.

Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

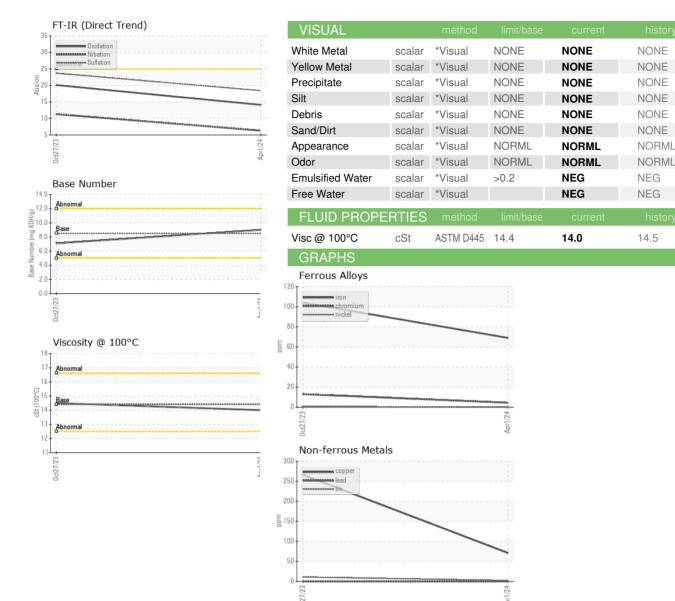
Fluid Condition

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

			0 ct2023	Apr2024		
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0116435	GFL0085234	
Sample Date		Client Info		01 Apr 2024	27 Oct 2023	
Machine Age	hrs	Client Info		0	0	
Oil Age	hrs	Client Info		600	600	
Oil Changed		Client Info		Not Changd	Changed	
Sample Status				NORMAL	ABNORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method	7 0.2	NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron		ASTM D5185m	>100	69	104	
Chromium	ppm	ASTM D5185m	>20	4	13	
Nickel	ppm	ASTM D5185m	>4	0	<1	
Titanium	ppm	ASTM D5185m	7 4	0	<1	
Silver	ppm	ASTM D5185m	>3	0	<1	
Aluminum	ppm	ASTM D5185m		18	△ 69	
Lead	ppm	ASTM D5185m	>40	0	0	
Copper	ppm	ASTM D5185m		71	<u>△</u> 266	
Tin	ppm	ASTM D5185m		2	11	
Vanadium	ppm	ASTM D5185m	0	- <1	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	12	16	
Barium	ppm	ASTM D5185m	10	0	5	
Molybdenum	ppm	ASTM D5185m	100	56	33	
Manganese	ppm	ASTM D5185m		1	4	
Magnesium	ppm	ASTM D5185m	450	884	714	
Calcium	ppm	ASTM D5185m	3000	1221	1142	
Phosphorus	ppm	ASTM D5185m	1150	1032	795	
Zinc	ppm	ASTM D5185m	1350	1249	925	
Sulfur	ppm	ASTM D5185m	4250	4157	3704	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	12	
Sodium	ppm	ASTM D5185m	>216	3	11	
Potassium	ppm	ASTM D5185m	>20	40	▲ 180	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	1.8	
Nitration	Abs/cm	*ASTM D7624	>20	6.3	11.3	
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.4	23.7	
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.1	20.1	
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	9.0	7.1	
	339	=000				



OIL ANALYSIS REPORT



Viscosity @ 100°C





Certificate L2367

Laboratory Sample No.

Lab Number : 06137229 Unique Number: 10956694 Test Package : FLEET

:St (100°C)

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0116435 Received : 03 Apr 2024 **Tested**

: 04 Apr 2024 : 04 Apr 2024 - Wes Davis Diagnosed

GFL Environmental - 035 - Greensboro

Base Number

12.0 (mg KOH/g) 0.8

6.0 Base 2.0 0.0

> 1236 Elon Place High Point, NC US 27263

Contact: JORGE COSTA jorge.costa@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. T: (336)668-3712

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: