

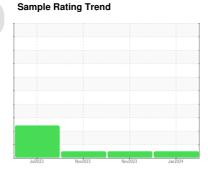
OIL ANALYSIS REPORT



(YA163404) 813026 Component

Diesel Engine

DIESEL ENGINE OIL SAE 30 (62 QTS)





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

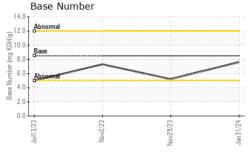
Fluid Condition

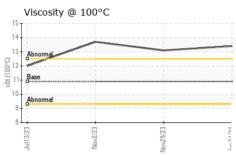
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

	outscoted 1904-05-04 1807-05-05 distributes					
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0109738	GFL0092673	GFL0092719
Sample Date		Client Info		31 Jan 2024	29 Nov 2023	02 Nov 2023
Machine Age	hrs	Client Info		2710	2677	2677
Oil Age	hrs	Client Info		510	676	262
Oil Changed		Client Info		Changed	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method		NEG	NEG	NEG
Glycol		WC Method	70.2	NEG	NEG	NEG
		WC Method		NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	12	51	29
Chromium	ppm	ASTM D5185m	>20	<1	2	<1
Nickel	ppm	ASTM D5185m	>5	4	5	2
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	<1	<1	<1
Aluminum	ppm	ASTM D5185m	>20	4	4	2
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	7	44	22
Tin	ppm	ASTM D5185m	>15	1	2	2
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	7	4	11
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	60	68	67
Manganese	ppm	ASTM D5185m		<1	2	1
Magnesium	ppm	ASTM D5185m	450	891	948	981
Calcium	ppm	ASTM D5185m	3000	1001	1191	1175
Phosphorus	ppm	ASTM D5185m	1150	987	979	1028
Zinc	ppm	ASTM D5185m	1350	1192	1268	1338
Sulfur	ppm	ASTM D5185m	4250	2689	2245	2835
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	11	8
Sodium	ppm	ASTM D5185m	>75	3	4	1
Potassium	ppm	ASTM D5185m	>20	11	8	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.6	1.3	0.7
Nitration	Abs/cm	*ASTM D7624	>20	8.0	11.4	8.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.2	22.8	20.2
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.9	21.6	17.1
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.6	5.2	7.3
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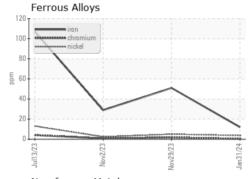


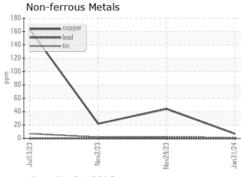


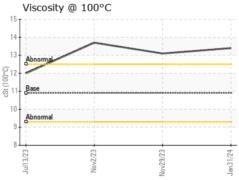
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

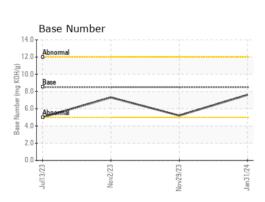
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	10.9	13.4	13.1	13.7

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number : 06082289 Unique Number : 10869734 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0109738 Received : 07 Feb 2024

Tested Diagnosed

: 08 Feb 2024 : 09 Feb 2024 - Jonathan Hester

GFL Environmental - 005 - Wilson/Tri-East(CNG)

2810 Contentnea Road S Wilson, NC

US 27893-8501 Contact: WALTER SKOKOWSKI

walter.skokowski@gflenv.com T:

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)

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