

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id 925056

Fluid

Component Diesel Engine

DIESEL ENGINE OIL SAE 40 (38 QTS)

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

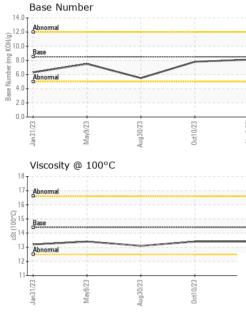
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		0012023	may2023	AU[2023 002023	1012023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0085168	GFL0071628	GFL0071571
Sample Date		Client Info		02 Nov 2023	10 Oct 2023	30 Aug 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		600	600	600
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT		method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Glycol		WC Method	>0.0	NEG	NEG	NEG
,		WC Welliou		NEG	NLG	NLG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	4	9	24
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	<1	<1	1
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	0	5
Lead	ppm	ASTM D5185m	>40	<1	<1	3
Copper	ppm	ASTM D5185m	>330	<1	2	7
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	9	4	2
Barium	ppm	ASTM D5185m	10	5	2	0
Molybdenum	ppm	ASTM D5185m	100	61	61	60
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	450	824	877	837
Calcium	ppm	ASTM D5185m	3000	1116	1055	1075
Phosphorus	ppm	ASTM D5185m	1150	1043	952	916
Zinc	ppm	ASTM D5185m	1350	1163	1187	1162
Sulfur	ppm	ASTM D5185m	4250	3027	3025	2433
CONTAMINAN		method	limit/base		history1	history2
Silicon	ppm	ASTM D5185m		4	4	7
Sodium	ppm	ASTM D5185m		0	2	6
Potassium	ppm	ASTM D5185m	>20	2	1	6
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.2	0.5	0.7
Nitration	Abs/cm	*ASTM D7624	>20	6.4	7.7	10.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.5	19.7	22.5
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.1	15.4	20.0
		ASTM D7414 ASTM D2896		8.1	7.8	5.5
Base Number (BN)	mg KOH/g	AGTINI DZ030	0.5	0.1	1.0	5.5



OIL ANALYSIS REPORT

VISUAL



AR	Sample No. Lab Number	: GFL008	GFL0085168 Received : 07 Nov 2023 06000240 Diagnosed : 07 Nov 2023 10728600 Diagnostician : Wes Davis FLEET tact Customer Service at 1-800-237-1369. butside of the ISO 17025 scope of accreditation. ations are based on the simple acceptance decision rule (JC					1236 Elon Place High Point, NC US 27263 Contact: JORGE COSTA jorge.costa@gflenv.com T: (336)668-3712			
	Laboratory	Jan31/23	eck USA -	- _{230/23} - 501 Madig	son Ave Ca	ary, NC 27513	- 52/6/m GFI Fi	۰ sz/0c ^{Bny} nvironmental - 0	- ^{22/0120}		
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		16									
		17- Abnormal				14.0	Abnormal	1			
		Viscosi ¹⁸ T	ty @ 100°(2		14.0	Base Numbe	r			
		Jan31/23	May9/23	Aug30/23	0ct10/23	Nov2/23					
		53	/23	/23	123	Contraction of the local division of the loc					
		2	and the second second								
		udd 4									
		e	1								
		8 -	lead tin								
		Non-fe	rrous Meta	ls							
		Jan31/23	May9/23	Aug30/23	0ct10/23	Nov2/23					
		10	_								
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Aug 20/23	0ct1 0/23 •	20 -	iron chromium nickel	\land							
		Ferrous	s Alloys								
		GRAF		COL	ASTIM D443	14.4	13.4	10.4	15.1		
		FLUID Visc @ 1		cSt	method ASTM D445	limit/base	current 13.4	history1 13.4	history2 13.1		
		Free Wat		scalar	*Visual		NEG	NEG	NEG		
		Emulsifie		scalar	*Visual	>0.2	NEG	NEG	NEG		
Augsu/23	0ct10/23 Nov2/23	Appeara Odor	nce	scalar scalar	*Visual *Visual	NORML NORML	NORML NORML	NORML	NORML NORML		
3	23	_ Sand/Dir		scalar	*Visual	NONE	NONE	NONE	NONE		
		Debris		scalar	*Visual	NONE	NONE	NONE	NONE		
		Silt		scalar	*Visual	NONE	NONE	NONE	NONE		
_		Precipita		scalar	*Visual	NONE	NONE	NONE	NONE		
		Yellow M		scalar	*Visual	NONE	NONE	NONE	NONE		

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