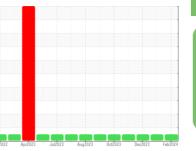


OIL ANALYSIS REPORT

Sample Rating Trend





NORMAL

SAMPLE INFOR	MATION	method	limit/base	current	history1	history
Sample Number		Client Info		GFL0102964	GFL0102979	GFL00864
Sample Date		Client Info		27 Feb 2024	15 Jan 2024	14 Dec 202
Machine Age	hrs	Client Info		4448	4311	4151
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history
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	history
Iron	ppm	ASTM D5185m	>110	3	6	3
Chromium	ppm	ASTM D5185m	>4	0	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	3	4	2
Lead	ppm	ASTM D5185m	>45	0	0	0
Copper	ppm	ASTM D5185m	>85	<1	<1	0
Tin	ppm	ASTM D5185m	>4	0	0	<1
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history
Boron	ppm	ASTM D5185m	250	15	15	17
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	70	58	56
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m	450	1032	857	838
Calcium	ppm	ASTM D5185m	3000	1214	1241	1140
Phosphorus	ppm	ASTM D5185m	1150	1228	1063	1067
Zinc	ppm	ASTM D5185m	1350	1421	1273	1248
Sulfur	ppm	ASTM D5185m	4250	3595	3264	3288
CONTAMINAN	ITS	method	limit/base	current	history1	history
Silicon	ppm	ASTM D5185m	>30	4	4	3
Sodium	ppm	ASTM D5185m	>216	1	<1	1
Potassium	ppm	ASTM D5185m	>20	1	4	3
INFRA-RED		method	limit/base	current	history1	history
Soot %	%	*ASTM D7844	>3	0.1	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	5.6	6.8	5.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.5	18.3	17.9
FLUID DEGRA	DATION	method	limit/base	current	history1	history
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.5	14.1	13.7

Machine Id 812039

Component **Diesel Engine DIESEL ENGINE OIL SAE 40 (--- GAL)**

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.

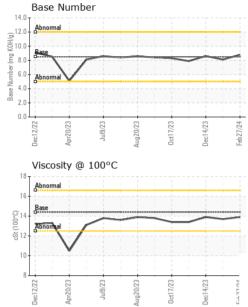
Fluid Condition

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



OIL ANALYSIS REPORT

VISUAL



	VICCIAL						
	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
/24	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Feb27/24	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
	Free Water	scalar	*Visual	>0.2	NEG	NEG	NEG
				limit/base			
_	FLUID PROPE Visc @ 100°C	cSt	method ASTM D445	limit/base	current 13.9	history1 13.7	history2 13.9
	GRAPHS	031	A3110 D443	14.4	13.9	13.7	13.9
	Ferrous Alloys						
	60 iron						
	50 - chromium						
1	40						
	Ē 30						
	20						
	10						
	0						
	Dec12/22 Apr20/23 Jul9/23	Aug20/23	0ct17/23 Dec14/23	Feb27/24			
			0c Dec	훕			
	Non-ferrous Meta	s					
	300 copper						
	250 - sessesses lead						
	200						
	툍 150-						
	d 130						
	100						
	50						
	ec12/22)/23	1/23	1/24			
	Dec12/22 Apr20/23 Jul9/23	Aug20/23	0ct17/23 Dec14/23	Feb27/24			
	Viscosity @ 100°C		—		Base Number		
	¹⁸			14	.0 T		
	17 Abnormal			12			
	10			(^B /H0	.0		
				У Ш 8	0	+++	~~~~
	() 14 001) 3 13 Abnomal			(b)H0J BW) as 4.			
	12	L		Nur Nur	Abnormal		
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	23	23-	23 -	.0		23	23
	Dec12/22 Apr20/23 Jul9/23	Aug20/23	0ct17/23 Dec14/23	Feb27/24	Dec12/22 Apr20/23	Jul9/23 Aug20/23	0ct17/23 Dec14/23
		A) 0	LL.	D 4	A	
У	: WearCheck USA - 50				GFL Envi	ronmental - 816 - WC	
~	: GFL0102964	Recei		3 Feb 2024		3083	Smackover H
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