

OIL ANALYSIS REPORT

Sample Rating Trend



Area (34748UA) 811061 Fluic

Component Main Diesel Engine

DIESEL ENGINE OIL S

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.

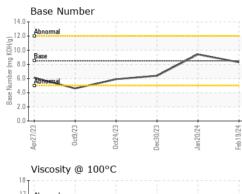
Fluid Condition

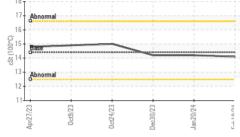
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

AE 40 (GAL)						
SAMPLE INFOR		method	0et2023 0et2023	Dec2023 Jan2024	Feb2024 history1	history2
			mmubase		· · · · · ·	
Sample Number Sample Date		Client Info		GFL0108277 19 Feb 2024	GFL0098218 20 Jan 2024	GFL0098208
	hrs	Client Info Client Info		6789	20 Jan 2024 6642	30 Dec 2023 6558
Machine Age Dil Age	hrs	Client Info		147	6642	6558
Dil Changed	1115	Client Info		Not Changd	Changed	0330 N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT		method	limit/base	current	history1	history2
		WC Method	>3.0	<1.0	<1.0	<1.0
Vater		WC Method	>0.2	<1.0 NEG	<1.0 NEG	<1.0 NEG
		WC Method	>0.2	NEG	NEG	NEG
Glycol					-	
WEAR METAL	.S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>120	3	2	9
Chromium	ppm	ASTM D5185m	>20	0	0	<1
	ppm	ASTM D5185m	>5	0	0	<1
Fitanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	1	<1	<1
ead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	1	<1 0	<1
Γin /anadium	ppm	ASTM D5185m ASTM D5185m	>15	<1 0	<1	<1
Cadmium	ppm ppm	ASTM D5185m		0	0	0
ADDITIVES	ppm	method	limit/base	current	history1	history2
Boron	0000	ASTM D5185m	250	14	10	8
Barium	ppm ppm	ASTM D5185m	10	0	0	0
Molybdenum		ASTM D5185m	100	57	56	62
Manganese	ppm ppm	ASTM D5185m	100	57 <1	<1	<1
Magnesium	ppm	ASTM D5185m	450	972	1007	945
Calcium	ppm	ASTM D5185m	3000	1104	1143	1148
Phosphorus	ppm	ASTM D5185m	1150	1060	1065	1020
Zinc	ppm	ASTM D5185m	1350	1317	1318	1256
Sulfur	ppm		4250	3198	3316	2742
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	3	3
Sodium	ppm	ASTM D5185m	>216	<1	<1	1
Potassium	ppm	ASTM D5185m	>20	2	0	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.1	0.1	0.6
Nitration	Abs/cm	*ASTM D7624	>20	6.8	5.2	9.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.6	17.5	21.8
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Dxidation	Abs/.1mm	*ASTM D7414	>25	14.5	13.1	17.2
Base Number (BN)	mg KOH/g	ASTM D2896	0.5	8.3	9.4	6.4



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	VISUAL		method	limit/base	current	history1	history2
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
\sim	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
Jan20/24 . Feb19/24	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Jan.	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
	Free Water	scalar	*Visual		NEG	NEG	NEG
	FLUID PROPE	RTIES	method	limit/base	current	history1	history2
	Visc @ 100°C	cSt	ASTM D445	14.4	14.1	14.2	14.2
	GRAPHS						
	Ferrous Alloys						
24	iron		1				
Jan 20/24	nickel						
-, ц	25						
	돌 ²⁰ 음. 15						
	10-						
	5						
	3 53 53			24			
	Apr27/23 0ct9/23	Dec30/23	Jan 20/24	Feb19/24			
	Non-ferrous Meta			LL.			
	¹⁰ T		·				
	8 - copper						
	o T						
	6-						
	A						
	2						
		and the second s					
	Apr27/23 0ct9/23	Dec30/23	Jan20/24	Feb19/24			
			Jan	Feb			
	Viscosity @ 100°C	;			Base Number		
	17- Abnormal			14.	Abnormal		
	16+		 				
	Î			Q P .	Base		
	0015 8314			(b)H01 H03 Bun set 8.1 Bun set 8.4 .1			
	1 I I I I I I I I I I I I I I I I I I I			un b.	Abnormal		
	Abnormai						
	12			2.			
		23	24	.0		/23-	124
	Apr27/23 0ct9/23	Dec30/23	Jan 20/24	Feb19/24	Apr27/23 0ct9/23	0ct24/23 Dec30/23	Jan 20/24 Feb 19/24
			,		-		-
Laboratory	: WearCheck USA - 50				GFL Envir		dericksburg Hauling
Sample No.	: GFL0108277	Recei		Feb 2024			54 Houser Drive
Lab Number Unique Number	: 06095442 : 10888295	Teste		2 Feb 2024 Feb 2024 - W	Ves Davis	Free	dericksburg, VA US 22408
		Diagi			100 Duno	• • •	



Diagnosed Test Package : FLEET Certificate L2367 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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