

Machine Id **AUTOCAR 813022** Component **Diesel Engine** Fluid **DIESEL ENGINE OIL SAE 40 (--- GAL)**

	REC	OMN	ЛEN	DAT	ION
--	-----	-----	-----	-----	-----

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

W	F,	Δ	R
	-		

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.

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0116804	GFL0116790	GFL0109021
Sample Date		Client Info		06 May 2024	03 Apr 2024	07 Mar 2024
Machine Age	hrs	Client Info		1791	1615	1473
Oil Age	hrs	Client Info		1791	1615	1473
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
Iron	nom	ASTM D5185m	<100	Q	3	g
Chromium	ppm	ASTM D5185m	>20	0 1	0	0
Nickel	ppm	ASTM D5185m	>20 _4	0	0	0
Titanium	nnm	ASTM D5185m	~7	-1	0	0
Silver	nnm	ASTM D5185m	-3	0	0	0
Aluminum	nom	ASTM D5185m	>20	7	4	7
Lead	nom	ASTM D5185m	> <u>4</u> 0	0	0	0
Copper	ppm	ASTM D5185m	>330	<1	0	0
Tin	ppm	ASTM D5185m	>15	-1	<1	0
Vanadium	ppm	ASTM D5185m	210	دا د1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
					HOHL	HONE
Silicon	ppm	ASTM D5185m	>25	3	2	2
Potassium	ppm	ASTM D5185m	>20	15	6	16
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.3	0.2	0.3
Nitration	Abs/cm	*ASTM D7624	>20	7.4	6.6	7.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.4	17.7	18.3
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
Sodium	nnm	ASTM D5185m	>216	3	~1	1
Boron	ppm	ASTM D5105m	250	7	11	9
Barium	nom	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	64	57	58
Manganese	ppm	ASTM D5185m	100	0	<1	0
Magnesium	ppm	ASTM D5185m	450	838	806	726
Calcium	ppm	ASTM D5185m	3000	1137	1078	1080
Phosphorus	mag	ASTM D5185m	1150	1016	935	817
Zinc	ppm	ASTM D5185m	1350	1188	1100	1009
Sulfur	ppm	ASTM D5185m	4250	2919	3065	2519
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.9	13.3	14.2
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.6	7.7	7.3
Visc @ 100°C	cSt	ASTM D445	14.4	12.9	12.9	12.8



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)

回影

Contact: Eric Jones

erjones@gflenv.com

T: (678)630-9927

F: