

Mobile Fleet

1525 1525 Component Diesel Engine

DIESEL ENGINE OIL SAE 10W30 (8 GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

There is a high amount of particulates present 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.

	Test	UOM	Method	Limit/Abn	Current	Historv1	Historv2
	Sample Number		Client Info		WC0919032	WC0861614	WC0808386
	Sample Date		Client Info		09 Apr 2024	12 Dec 2023	26 Jun 2023
	Machino Ago	hre	Client Info		10477	12005	1020/
		hro	Client Info		19477	10335	10304
		lare	Client Info		402	020	424
	Filter Age	nrs	Client Info		482	625	424
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
	Iron	ppm	ASTM D5185m	>90	36	34	15
	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>2	0	0	<1
	Titanium	ppm	ASTM D5185m	>2	0	0	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	2	2	2
	Lead	ppm	ASTM D5185m	>40	24	14	<1
	Copper	mag	ASTM D5185m	>330	4	3	2
	Tin	ppm	ASTM D5185m	>15	<1	<1	<1
	Vanadium	nnm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Vellow Motol	scalar	*Vieual	NONE	NONE	NONE	NONE
	renow wetar	Sudidi	visudi	NONE	NONE	NONE	NONE
	Silicon	nnm	ASTM D5185m	>25	6	6	8
	Potassium	nom	ASTM D5185m	>20	-1		<1
	Fuel	ppiii	WC Mothod	>20	<10	<1.0	<1.0
	Water		WC Method	>0.0		<1.0	<1.0
	Olyand		WC Method	>0.2	NEG	NEG	NEG
	Glycol	0/		0	NEG	NEG	NEG
	S001 %	%	*ASTM D7844	>6	0.3	0.5	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	10.2	10.1	8.6
	Sulfation	Abs/.1mm	*ASTM D7415	>30	25.8	25.2	22.5
	Particles >4µm		ASTM D7647	>20000	A 36112	5 4964	<u> </u>
	Particles >6µm		ASTM D7647	>5000	<u> </u>	▲ 29942	<u> </u>
	Particles >14µm		ASTM D7647	>640	A 3348	▲ 5096	<u> </u>
	Particles >21µm		ASTM D7647	>160	<u> </u>	🔺 1716	<u> </u>
	Particles >38µm		ASTM D7647	>40	🔺 174	🔺 265	🔺 118
	Particles >71µm		ASTM D7647	>10	<u> </u>	🔺 27	<u> </u>
	Oil Cleanliness		ISO 4406 (c)	>21/19/16	<u> </u>	▲ 23/22/20	🔺 22/21/18
	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	ppm	ASTM D5185m		2	1	4
	Boron	ppm	ASTM D5185m	250	71	56	58
	Barium	ppm	ASTM D5185m	10	0	0	0
	Molybdenum	ppm	ASTM D5185m	100	57	51	56
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	mag	ASTM D5185m	450	681	570	598
	Calcium	ppm	ASTM D5185m	3000	2158	1707	1691
	Phosphorus	ppm	ASTM D5185m	1150	966	749	1057
	Zinc	nom	ASTM D5185m	1350	1181	1005	1306
	Sulfur	nnm	ASTM D5185m	4250	32/12	23/8	3726
	Ovidation	Abe/ 1mm	*ASTM D310311	-25	27.2	2540	20.6
	Dago Number (DN)	MUS/.111111		>2J	21.2	23.7	20.0
	Dase Number (BN)	ing KUH/g	ASTM D2896	0.0	9.8	8.3	9.2
		COL	ASTIVI D445	10.9	14.0	13.0	14.2



CAROLINA SUNROCK Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : WC0919032 PO BOX 25 Received : 11 Apr 2024 Lab Number : 06146509 BUTNER, NC Tested : 15 Apr 2024 : 15 Apr 2024 - Sean Felton US 27509 Unique Number : 10976587 Diagnosed Test Package : CONST (Additional Tests: PrtCount, TBN) Contact: Leigh Dennis Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. rdennis@thesunrockgroup.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (919)575-4505 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (919)575-0162

Contact/Location: Leigh Dennis - CARBUTNC Page 2 of 2