

WEAR NORMAL CONTAMINATION ATTENTION FLUID CONDITION NORMAL



Contracting Machine Id 5208 5208 Component Hydraulic System Fluid DIESEL ENGINE OIL SAE 15W40 (31 GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		WC0918735	WC0808920	WC068824
	Sample Date		Client Info		23 Apr 2024	04 May 2023	06 Apr 202
	Machine Age	hrs	Client Info		5329	4741	4238
	Oil Age	hrs	Client Info		588	2640	2137
	Filter Age	hrs	Client Info		588	2640	2137
	Oil Changed		Client Info		Not Changd	Changed	Not Chang
	Filter Changed		Client Info		Not Changd	-	Changed
	Sample Status				ATTENTION	ABNORMAL	ABNORMA
WEAR	Iron	ppm	ASTM D5185m	>20	6	11	9
	Chromium	ppm	ASTM D5185m	>10	2	3	2
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m		0	<1	<1
	Aluminum	ppm	ASTM D5185m	>10	4	7	5
	Lead	ppm	ASTM D5185m		0	0	<1
	Copper	ppm	ASTM D5185m		<1	3	1
	Tin	ppm	ASTM D5185m		0	0	0
	Vanadium	ppm	ASTM D5185m	10	0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
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CONTAMINATION	Silicon	ppm	ASTM D5185m		9	13	8
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.	Potassium	ppm	ASTM D5185m		<1		2
	Water		WC Method	>0.1	NEG	NEG	NEG
	Particles >4µm		ASTM D7647		5010		▲ 11527
	Particles >6µm		ASTM D7647		1009		A 2891
	Particles >14µm		ASTM D7647		79		<u> </u>
	Particles >21µm		ASTM D7647		19		4 7
	Particles >38µm		ASTM D7647		1		2
	Particles >71µm		ASTM D7647		0		0
	Oil Cleanliness		ISO 4406 (c)		20/17/13		▲ 21/19/1
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	▲ MODER	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>158	6	6	4
	Boron	ppm	ASTM D5185m		56	25	27
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m	10	0	0	0
	Molybdenum	ppm	ASTM D5185m		34	15	15
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m	450	446	386	358
	Calcium	ppm	ASTM D5185m		1245	651	669
	Phosphorus	ppm	ASTM D5185m		758	720	701
	Zinc	ppm	ASTM D5185m		852	848	836
	Sulfur	ppm	ASTM D5185m		3250	3585	2300
	A old Normaliser (ANI)	ma VOLVa	ACTM DODAS		1 10	1.00	1 00

Acid Number (AN) mg KOH/g ASTM D8045

Visc @ 40°C cSt ASTM D445 115

1.00

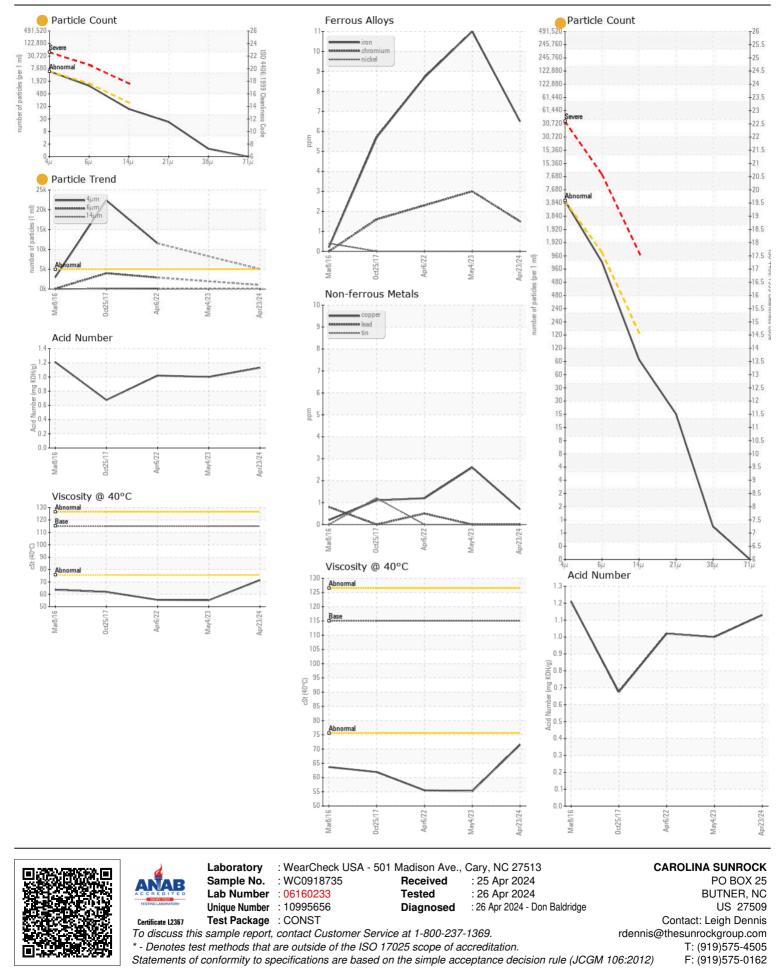
55.2

1.02

55.5

1.13

71.5



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