

OIL ANALYSIS REPORT

Sample Rating Trend

WEAR

Machine Id **522** Component **Diesel Engine** Fluid **NOT GIVEN (--- GAL)**

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

🔺 Wear

The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other metal levels are typical for a new component breaking in.

Contamination

Fuel content negligible. Elevated aluminum (AI) 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.

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.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC05790705		
Sample Date		Client Info		20 Feb 2023		
Machine Age	mls	Client Info		145801		
Oil Age	mls	Client Info		28993		
Oil Changed		Client Info		Not Changd		
Sample Status				ABNORMAL		
		mathad	limit/hooo	ourroat	biotom	history 0
CONTAMINATION	N	method	limit/base	current	nistory i	nistory2
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	maa	ASTM D5185m	>100	37		
Chromium	maa	ASTM D5185m	>20	3		
Nickel	ppm	ASTM D5185m	>4	<1		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>20	25		
Lead	ppm	ASTM D5185m	>40	0		
Copper	ppm	ASTM D5185m	>330	<u> </u>		
Tin	ppm	ASTM D5185m	>15	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
		un atta a d	line t/le e e e		lai at a mut	history O
ADDITIVE5		method	inniv base	current	nistory i	nistory2
Boron	ppm	ASTM D5185m		4		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		63		
Manganese	ppm	ASTM D5185m		1		
Magnesium	ppm	ASTM D5185m		917		
Calcium	ppm	ASTM D5185m		1257		
Phosphorus	ppm	ASTM D5185m		1042		
Zinc	ppm	ASTM D5185m		1287		
Sulfur	ppm	ASTM D5185m		2810		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	9		
Sodium	ppm	ASTM D5185m		1		
Potassium	ppm	ASTM D5185m	>20	50		
Fuel	%	ASTM D3524	>5	0.2		
		method	limit/hase	current	history1	history2
	0/		. 0		inotory i	motoryz
SUUL %	70 Aba/am	AOTM D7604	>3	0.0		
Sulfation	ADS/CITI	ASTN D7/15	>20	9.7		
Suilation	AD2/.111111	ASTIVI D7415	>00	20.4		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.0		
Base Number (BN)	mg KOH/g	ASTM D2896		8.3		



OIL ANALYSIS REPORT

