

OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id **22403** Component **Diesel Engine** Fluid **NOT GIVEN (--- QTS)**

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. 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

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.

Fluid Condition

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

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0832049		
Sample Date		Client Info		25 Sep 2023		
Machine Age	mls	Client Info		47975		
Oil Age	mls	Client Info		47975		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINATION	٧	method	limit/base	current	history1	history2
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	75		
Chromium	ppm	ASTM D5185m	>20	6		
Nickel	ppm	ASTM D5185m	>4	2		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>3	<1		
Aluminum	ppm	ASTM D5185m	>20	104		
Lead	ppm	ASTM D5185m	>40	0		
Copper	ppm	ASTM D5185m	>330	160		
Tin	ppm	ASTM D5185m	>15	7		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		27		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		43		
Manganese	ppm	ASTM D5185m		3		
Magnesium	ppm	ASTM D5185m		562		
Calcium	ppm	ASTM D5185m		1789		
Phosphorus	ppm	ASTM D5185m		735		
Zinc	ppm	ASTM D5185m		950		
Sulfur	ppm	ASTM D5185m		1968		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon		ASTM D5185m	>25	13	Thistory I	THISTOLYZ
Sodium	ppm	ASTM D5185m	225	8		
	ppm		> 20			
Potassium Fuel	ppm %	ASTM D5185m ASTM D3524	>20 >5	253 0.2		
	/0	AGTIVI DOJZ4		0.2		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.7		
Nitration	Abs/cm	*ASTM D7624	>20	10.6		
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.6		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	25.7		
Base Number (BN)	mg KOH/g	ASTM D2896		7.1		



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