

OIL ANALYSIS REPORT



Machine Id **2341** Component **Diesel Engine** Fluid **DIESEL ENGINE OIL SAE 5W30 (--- 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.

Wear

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. No other contaminants were detected in the oil.

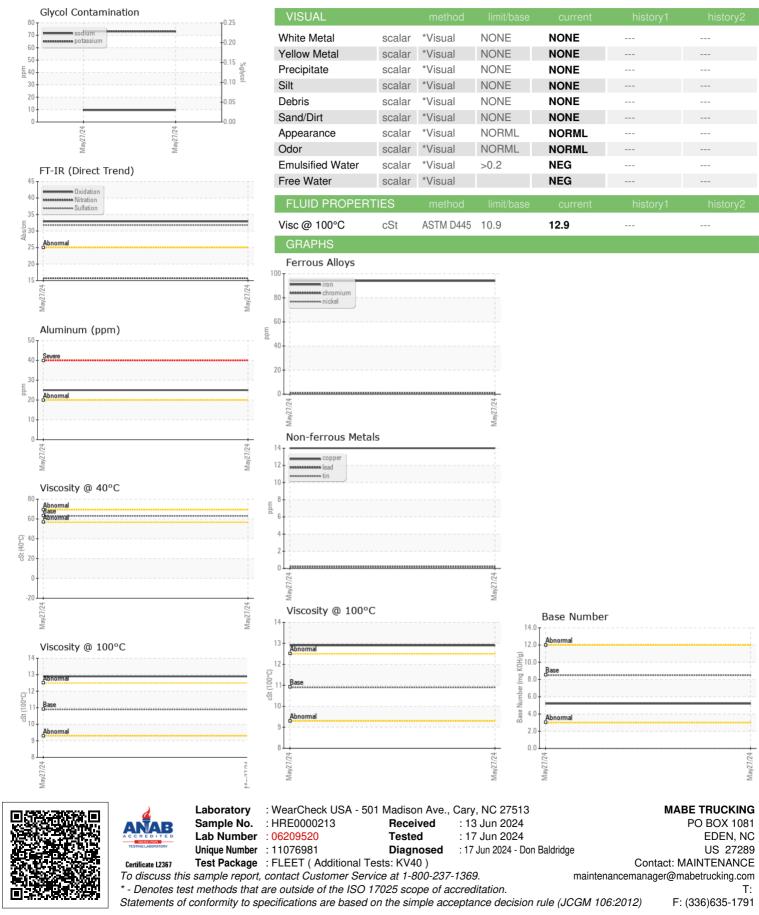
Fluid Condition

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.

				May2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		HRE0000213		
Sample Date		Client Info		27 May 2024		
Machine Age	mls	Client Info		127747		
Oil Age	mls	Client Info		50000		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINATIC	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	94		
Chromium	ppm	ASTM D5185m	>20	<1		
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	<1		
Copper	ppm	ASTM D5185m	>330	14		
Tin	ppm	ASTM D5185m	>15	<1		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		2		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	18		
Barium	ppm	ASTM D5185m	10	<1		
Molybdenum	ppm	ASTM D5185m	100	42		
Manganese	ppm	ASTM D5185m		3		
Magnesium	ppm	ASTM D5185m	450	1086		
Calcium	ppm	ASTM D5185m	3000	1295		
Phosphorus	ppm	ASTM D5185m	1150	993		
Zinc	ppm	ASTM D5185m	1350	1208		
Sulfur	ppm	ASTM D5185m	4250	3528		
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	23		
Sodium	ppm	ASTM D5185m		10		
Potassium	ppm	ASTM D5185m	>20	73		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.7		
Nitration	Abs/cm	*ASTM D7624	>20	15.7		
Sulfation	Abs/.1mm	*ASTM D7415	>30	31.8		
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FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
	ATION Abs/.1mm	method *ASTM D7414	limit/base >25	current 32.9	history1	history2



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Contact/Location: MAINTENANCE ? - MABEDE