

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

PETERBILT 13

Component Diesel Engine Fluid DIESEL ENGINE OIL SAE 40 (--- GAL)

DIAGNOSIS

Recommendation

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

Wear

All component wear rates are normal.

Contamination

Light fuel dilution occurring. No other contaminants were detected in the oil.

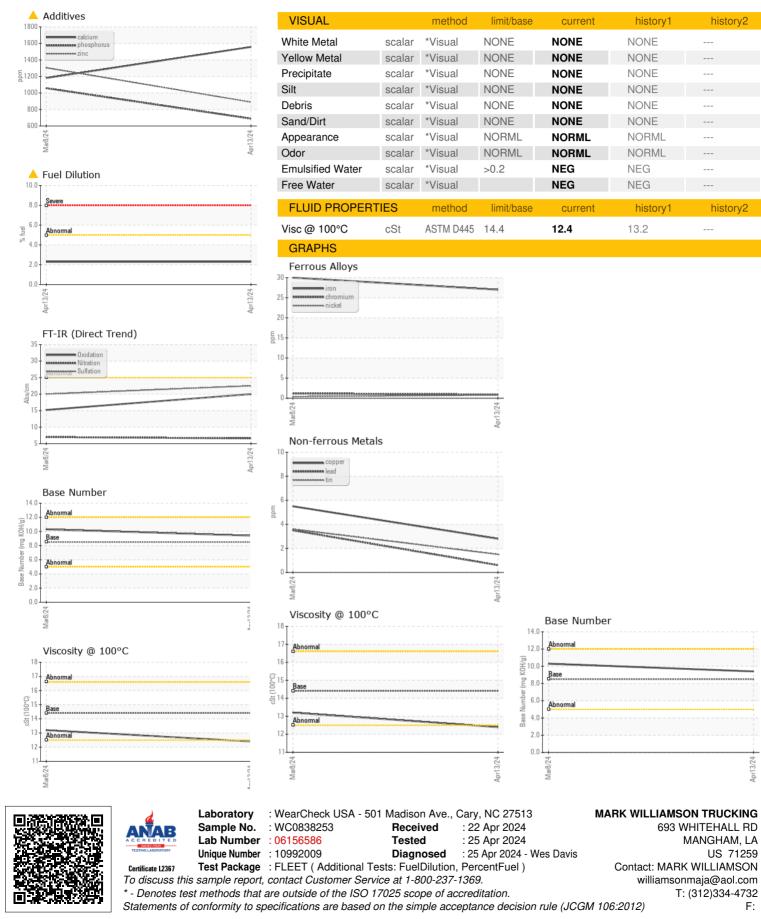
Fluid Condition

Phosphorus ppm levels are abnormally low. The BN result indicates that there is suitable alkalinity remaining in the oil.

SAMPLE INFORMA	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0838253	WC0838255	
Sample Date		Client Info		13 Apr 2024	08 Mar 2024	
Machine Age	mls	Client Info		1580159	1570924	
Oil Age	mls	Client Info		0	0	
Oil Changed		Client Info		Changed	Changed	
Sample Status				ABNORMAL	NORMAL	
CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>110	27	30	
	ppm	ASTM D5185m	>4	<1	1	
Nickel	ppm	ASTM D5185m	>2	<1	<1	
Titanium	ppm	ASTM D5185m		<1	<1	
Silver	ppm	ASTM D5185m	>2	0	<1	
Aluminum	ppm	ASTM D5185m	>25	2	4	
Lead	ppm	ASTM D5185m	>45	<1	4	
Copper	ppm	ASTM D5185m	>85	3	6	
Tin	ppm	ASTM D5185m	>4	2	4	
Vanadium	ppm	ASTM D5185m		<1	<1	
Cadmium	ppm	ASTM D5185m		<1	<1	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	41	34	
Barium	ppm	ASTM D5185m	10	<1	<1	
Molybdenum	ppm	ASTM D5185m	100	42	58	
Manganese	ppm	ASTM D5185m		<1	1	
Magnesium	ppm	ASTM D5185m	450	529	963	
Calcium	ppm	ASTM D5185m	3000	1557	1181	
Phosphorus	ppm	ASTM D5185m	1150	689	1058	
Zinc	ppm	ASTM D5185m	1350	889	1305	
Sulfur	ppm	ASTM D5185m	4250	2346	4714	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	12	25	
Sodium	ppm	ASTM D5185m	>216	3	7	
Potassium	ppm	ASTM D5185m	>20	2	6	
Fuel	%	ASTM D3524	>5	<u> </u>	<1.0	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.3	
Nitration	Abs/cm	*ASTM D7624	>20	6.6	7.0	
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.5	20.0	
FLUID DEGRADAT	ION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.0	15.2	
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	9.4	10.3	
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