

OIL ANALYSIS REPORT



Machine Id

FSP144312

Component Diesel Engine Fluid DIESEL ENGINE OIL SAE 15W40 (--- QTS)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

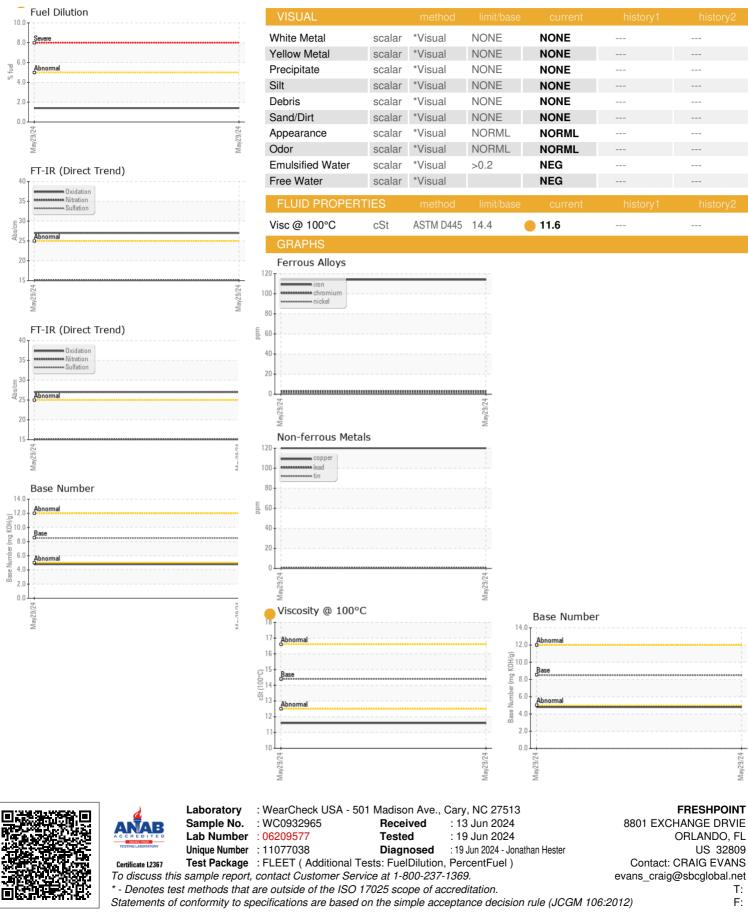
Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0932965		
Sample Date		Client Info		29 May 2024		
Machine Age	mls	Client Info		18152		
Oil Age	mls	Client Info		0		
Oil Changed		Client Info		Changed		
Sample Status				ATTENTION		
CONTAMINATION	۷	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	114		
Chromium	ppm	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	16		
Lead	ppm	ASTM D5185m	>40	<1		
Copper	ppm	ASTM D5185m	>330	120		
Tin	ppm	ASTM D5185m	>15	0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		2		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	15		
Barium	ppm	ASTM D5185m	10	7		
Molybdenum	ppm	ASTM D5185m	100	50		
Manganese	ppm	ASTM D5185m		8		
Magnesium	ppm	ASTM D5185m	450	832		
Calcium	ppm	ASTM D5185m	3000	1309		
Phosphorus	ppm	ASTM D5185m	1150	698		
Zinc Sulfur	ppm	ASTM D5185m ASTM D5185m	1350 4250	884 2397		
	ppm	ASTIVI DUTOJIII		2397		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		33		
Sodium	ppm	ASTM D5185m		10		
Potassium	ppm	ASTM D5185m	>20	35		
Fuel	%	ASTM D3524	>5	1.4		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5		
Nitration	Abs/cm	*ASTM D7624	>20	15.1		
Sulfation	Abs/.1mm	*ASTM D7415	>30	27.0		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	27.0		
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	4.8		



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Contact/Location: CRAIG EVANS - FREORL

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