OIL ANALYSIS REPORT

WEAR CONTAMINATION FLUID CONDITION

NORMAL SEVERE NORMAL

INTERNATIONAL J3003

Diesel Engine

Machine Id

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check for faulty combustion, plugged air filters, or aftercoolers. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Number		Client Info		TR06152196		
	Sample Date		Client Info		13 Sep 2023		
	Machine Age	hrs	Client Info		0		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed	1110	Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status		Olioni illio		SEVERE		
	·····				0272112		
VEAR	Iron	ppm	ASTM D5185m	>100	72		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	2		
	Nickel	ppm	ASTM D5185m	>4	0		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m	>3	0		
	Aluminum	ppm	ASTM D5185m	>20	2		
	Lead	ppm	ASTM D5185m	>40	7		
	Copper	ppm	ASTM D5185m	>330	2		
	Tin	ppm	ASTM D5185m	>15	2		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	LIGHT		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m		10		
There is a moderate amount of fuel present in the oil. There is an abnormal amount of solids and carbon present in the oil. Tests confirm the presence of fuel in the oil.	Potassium	ppm	ASTM D5185m	>20	3		
	Fuel	%	ASTM D3524		4.6		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844		▲ 5.1		
	Nitration	Abs/cm	*ASTM D7624		11.3		
	Sulfation	Abs/.1mm	*ASTM D7415		29.1		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.2	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2		
LOID CONDITION	Boron	ppm	ASTM D5185m		0		
The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		<1		
	Manganese	ppm	ASTM D5185m		1		
	Magnesium	ppm	ASTM D5185m		11		
	Calcium	ppm	ASTM D5185m		2248		
	Phosphorus	ppm	ASTM D5185m		889		
	Zinc		ASTM D5185m		1017		
	Sulfur	ppm	ASTM D5185m		3839		
	Oxidation	Abs/.1mm	*ASTM D7414	> 2F	3839 12.9		
	Base Number (BN)			>20	5.41		

Visc @ 100°C cSt

ASTM D445

15.7





Laboratory Sample No. Lab Number : 06152196

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : TR06152196

Unique Number : 10982274

Received **Tested**

Diagnosed

: 22 Apr 2024 : 22 Apr 2024 - Wes Davis

: 17 Apr 2024

SEGUIN, TX

Contact: ROY SAGREDO

J & D TRUCKING

Test Package : MOB 2 (Additional Tests: FuelDilution, PercentFuel) To discuss this sample report, contact Customer Service at 1-800-827-0711.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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