WEAR CONTAMINATION FLUID CONDITION

NORMAL SEVERE ABNORMAL

Machine Id

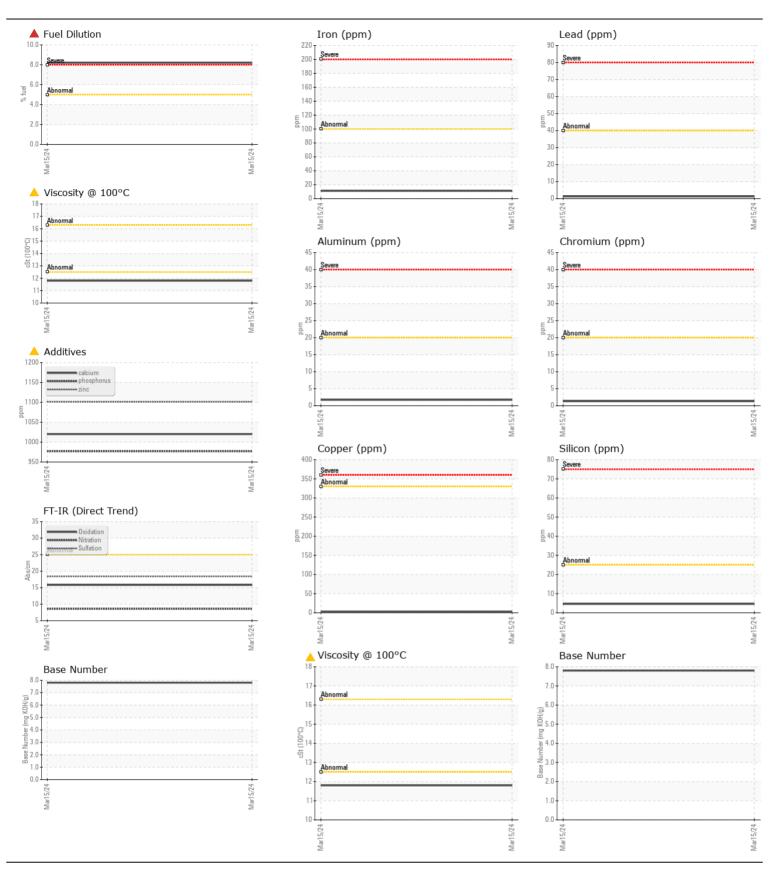
LOADER 10018

Component Diesel Engine							
Fluid							
MOBIL 15W40 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check all areas where contaminants can enter the system. We advise that you check the fuel injection system. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Number		Client Info		WC0906194		
	Sample Date		Client Info		15 Mar 2024		
	Machine Age	hrs	Client Info		1413		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				SEVERE		
WEAR	Iron	ppm	ASTM D5185m	>100	11		
WEAT	Chromium		ASTM D5185m		1		
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		1		
	Titanium	ppm	ASTM D5185m	>4			
	Silver	ppm		. 0	<1		
		ppm	ASTM D5185m		<1		
	Aluminum	ppm	ASTM D5185m		2		
	Lead	ppm	ASTM D5185m		1		
	Copper	ppm	ASTM D5185m		3		
	Tin	ppm		>15	1		
	Vanadium	ppm	ASTM D5185m	NONE	<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	5		
CONTAMINATION	Potassium	ppm	ASTM D5185m		1		
Calcium and/or magnesium levels higher than normal indicating possible contamination with cement dust, advise investigate. There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.	Fuel	%	ASTM D3524		▲ 8.2		
	Water	70	WC Method		NEG		
	Glycol		WC Method	70.2	NEG		
	Soot %	%	*ASTM D7844	~3	0.2		
	Nitration	Abs/cm	*ASTM D7624	>20	8.6		
	Sulfation	Abs/.1mm	*ASTM D7415		18.4		
	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			>0.2	NEG		
			· · · · · · · · ·	70.2			
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>118	2		
	Boron	ppm	ASTM D5185m		5		
Calcium ppm levels are abnormally high. Visc @ 100°C is abnormally low. The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity.	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		54		
	Manganese	ppm	ASTM D5185m		1		
	Magnesium	ppm	ASTM D5185m		826		
	Calcium	ppm	ASTM D5185m		1020		
	Phosphorus	ppm	ASTM D5185m		977		
	Zinc	ppm	ASTM D5185m		1101		
	Sulfur	ppm	ASTM D5185m		2974		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.8		
	Base Number (BN)	mg KOH/g	ASTM D2896		7.8		
	\forage 0.40000	- 04	AOTAL DAAF				

<u> 11.8</u>

ASTM D445

Visc @ 100°C cSt





Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0906194 Lab Number : 06152800

Unique Number: 10982878

Received : 18 Apr 2024 **Tested** Diagnosed

Test Package: MOB 1 (Additional Tests: FuelDilution, PercentFuel, TBN)

: 22 Apr 2024 : 22 Apr 2024 - Wes Davis To discuss this sample report, contact Customer Service at 1-800-237-1369.

CONCRETE SERVICE CO - FAY BLOCK 161 BUILDERS BLVD FAYETTEVILLE, NC US 28301

Contact: BRYAN VANNIMAN bryanvanniman@fayblock.com T: (800)326-9198

* - 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)