

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL



LIEBHERR PR766 023058-1681

Diesel Engine

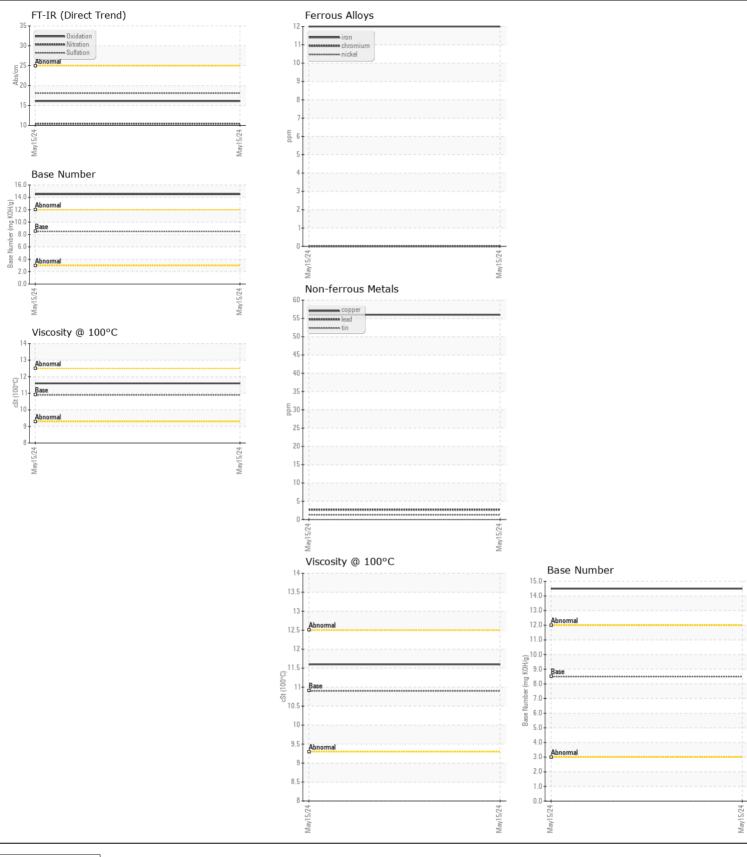
DIESEL ENGINE OIL SAE 5W30 (--- GAL)

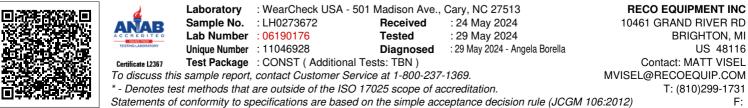
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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		LH0273672		
	Sample Date		Client Info		15 May 2024		
	Machine Age	hrs	Client Info		946		
	Oil Age	hrs	Client Info		946		
	Filter Age	hrs	Client Info		946		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
WEAR All component wear rates are normal.				100	40		
	Iron	ppm	ASTM D5185m		12		
	Chromium	ppm	ASTM D5185m		0		
	Nickel	ppm	ASTM D5185m ASTM D5185m	C<	0		
	Titanium	ppm		0	<1		
	Silver	ppm	ASTM D5185m		<1		
	Aluminum	ppm	ASTM D5185m		3		
	Lead	ppm	ASTM D5185m ASTM D5185m		3 56		
	Copper Tin	ppm	ASTM D5185m		1		
	Vanadium	ppm	ASTM D5185m	>0	0		
	White Metal	ppm scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
		Scalai	visuai				
CONTAMINATION There is no indication of any contamination in the oil.	Silicon	ppm	ASTM D5185m	>60	8		
	Potassium	ppm	ASTM D5185m	>20	2		
	Fuel		WC Method	>5	<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.1		
	Nitration	Abs/cm	*ASTM D7624	>20	10.4		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.1		
	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	050	5		
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.	Boron	ppm	ASTM D5185m		230		
	Barium	ppm	ASTM D5185m		<1		
	Molybdenum	ppm	ASTM D5185m	100	9		
	Manganese	ppm	ASTM D5185m	450	1		
	Magnesium	ppm	ASTM D5185m ASTM D5185m		200		
	Calcium	ppm		3000	3803		
	Phosphorus	ppm	ASTM D5185m		988		
	Zinc	ppm	ASTM D5185m		1166		
	Sulfur Oxidation	ppm	ASTM D5185m		3488		
		Abs/.1mm	*ASTM D7414		16.1		
	Base Number (BN)	nig KUH/g	ASTIVI D2896	0.0	14.5		

Visc @ 100°C cSt

ASTM D445 10.9

11.6





Contact/Location: MATT VISEL - RECBRILH Page 2 of 2