

Machine Id 19007 Component **Diesel Engine** DIESEL ENGINE OIL SAE 15W40 (--- QTS)

RECOMMENDATION	Test	UOM	M	
	Sample Number	er	С	
Oil and filter change at the time of sampling has been noted. Reat the next service interval to monitor.	sample Sample Date		С	
	Machine Age	mls	С	
	Oil Age	mls	С	
	Filter Age	mls	С	
	Oil Changed		С	
	Filter Change	d	С	
	Sample Status			
WEAR	Iron	ppm	A	
Desvice and/or bushing way is indicated	Chromium	ppm	A	
Bearing and/or bushing wear is indicated.	Nickel	nnm	A	

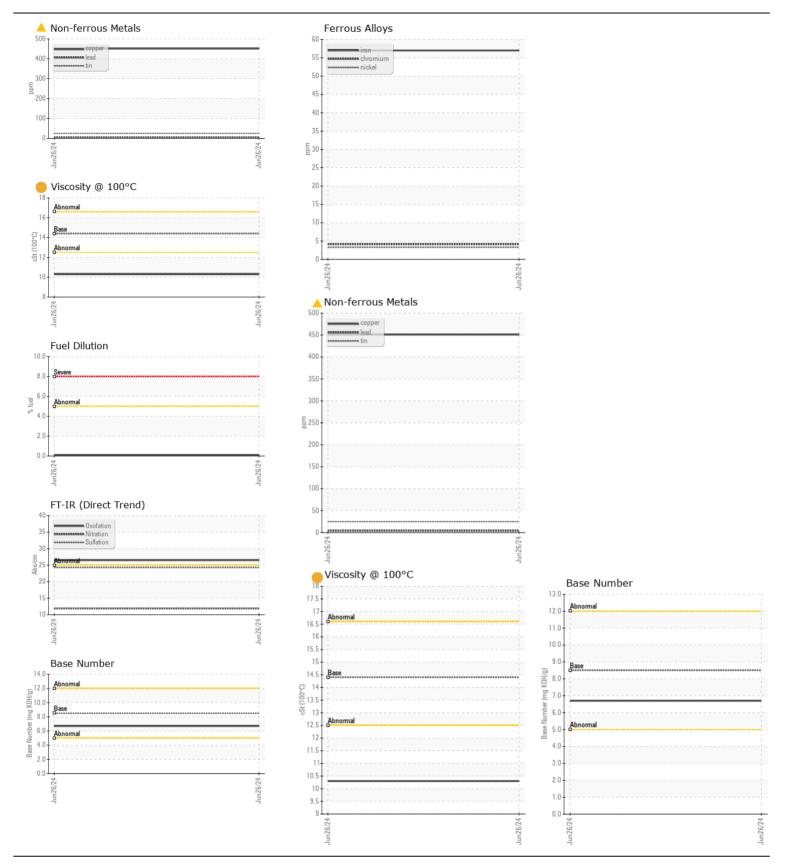
ITAMINATION

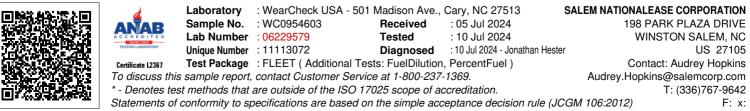
Fuel content negligible. Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

Т	est	UOM	Method	Limit/Abn	Cı	urrent	History1	History2
S	ample Number		Client Info		w	C0954603		
	ample Date		Client Info		26	Jun 2024		
	Iachine Age	mls	Client Info		0			
)il Age	mls	Client Info		28	000		
	ilter Age	mls	Client Info		0			
	il Changed		Client Info		Cł	nanged		
	ilter Changed		Client Info			nanged		
	ample Status					NORMAL		
Ire	on	ppm	ASTM D5185m	>100		57		
С	hromium	ppm	ASTM D5185m	>20		4		
Ν	lickel	ppm	ASTM D5185m	>4		3		
Ti	ïtanium	ppm	ASTM D5185m			0		
S	ilver	ppm	ASTM D5185m	>3		<1		
A	luminum	ppm	ASTM D5185m	>20		35		
Le	ead	ppm	ASTM D5185m	>40		4		
С	opper	ppm	ASTM D5185m	>330		451		
Ti	ïn	ppm	ASTM D5185m	>15		25		
V	anadium	ppm	ASTM D5185m			0		
W	Vhite Metal	scalar	*Visual	NONE		NONE		
Y	ellow Metal	scalar	*Visual	NONE		NONE		
-	ilicon	ppm	ASTM D5185m	>25		7		
	otassium	ppm	ASTM D5185m	>20		94		
	uel	%	ASTM D3524	>5		0.1		
	Vater		WC Method	>0.2		NEG		
	alycol		WC Method			NEG		
	oot %	%	*ASTM D7844	>3		0.7		
	litration	Abs/cm	*ASTM D7624	>20		11.9		
	Sulfation	Abs/.1mm	*ASTM D7415	>30		24.3		
-	ilt	scalar	*Visual	NONE		NONE		
	ebris	scalar	*Visual	NONE		NONE		
-	and/Dirt	scalar	*Visual	NONE		NONE		
	ppearance	scalar	*Visual	NORML		NORML		
-	Odor	scalar	*Visual	NORML		NORML		
E	mulsified Water	scalar	*Visual	>0.2		NEG		
¢.	odium	ppm	ASTM D5185m	>158		5		
	loron		ASTM D5185m	250		26		
	arium	ppm	ASTM D5185m	10		20 <1		
	lolybdenum	ppm ppm	ASTM D5185m	100		42		
	langanese		ASTM D5185m	100		4		
	lagnesium	ppm ppm	ASTM D5185m	450		4 529		
	alcium		ASTM D5185m	3000		529 1846		
	hosphorus	ppm ppm	ASTM D5185m	1150		755		
	inc	ppm	ASTM D5185m	1350		904		
	Sulfur	ppm	ASTM D5185m	4250		2014		
	Dxidation	Abs/.1mm	*ASTM D5105111	>25		2014		
	ase Number (BN)	mg KOH/g	ASTM D7414 ASTM D2896	8.5		6.7		
	ísc @ 100°C	cSt	ASTM D2030 ASTM D445	14.4		10.3		
v		001	A0 I W D443	14.4		10.3		

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.





Contact/Location: Audrey Hopkins - SALWIN Page 2 of 2