MOB LEAHY·WOLF Lubricating specialists since 1946

OIL ANALYSIS REPORT

Area **TA Machines** Machine Id **SW405 CB247 SW4054CBO1098** Component **Diesel Engine**

CITGO 15W40 (--- GAL)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LW0008284		
Sample Date		Client Info		16 Jan 2024		
Machine Age	hrs	Client Info		20		
Oil Age	hrs	Client Info		20		
Filter Age	hrs	Client Info		0		
Oil Changed		Client Info		Not Changd		
Filter Changed		Client Info		N/A		
Sample Status				NORMAL		
			. 100	40		
			>4			
			0			
				-		
			>15			
			NONE			
Yellow Metal	scalar	*Visual	NONE	NONE		
Silicon	maa	ASTM D5185m	>25	21		
	pp					
	%		>3			
Sodium	ppm	ASTM D5185m		3		
Boron	ppm	ASTM D5185m		12		
Barium	ppm	ASTM D5185m		16		
Molybdenum	ppm	ASTM D5185m		35		
Manganese	ppm	ASTM D5185m		3		
Magnesium	ppm	ASTM D5185m		243		
Calcium	ppm	ASTM D5185m		1848		
Phosphorus	ppm	ASTM D5185m		1019		
Zinc	ppm	ASTM D5185m		1105		
	ppm ppm	ASTM D5185m ASTM D5185m		1105 4311		
-	Sample Number Sample Date Machine Age Oil Age Filter Age Oil Changed Filter Changed Sample Status Iron Chromium Silver Aluminum Lead Copper Tin Vanadium White Metal Valow Metal Valow Metal Yellow Metal Yellow Metal Silicon Potassium Fuel Vanadium Silicon Soot % Nitration Sulf	Sample NumberISample DateInsMachine AgehrsOil AgehrsFilter AgehrsOil ChangedIFilter ChangedISample StatusIIronppmChromiumppmNickelppmSilverppmAluminumppmCopperppmVanadiumppmVanadiumppmVanadiumppmSiliconppmFuelISiliconppmFuelISoot %%NitrationAbs/nmSiltscalarSulfationAbs/nmSiltscalarGoperscalarSoot %%NitrationAbs/nmSiltscalarSulfationscalarSodiumppmBariumppmBariumppmManganeseppmMagnesiumppmMagnesiumppm	Sample NumberClient InfoSample DateClient InfoMachine AgehrsClient InfoOil AgehrsClient InfoFilter AgehrsClient InfoOil ChangedClient InfoFilter ChangedClient InfoSample StatusClient InfoIronppmASTM D5185mChromiumppmASTM D5185mNickelppmASTM D5185mNickelppmASTM D5185mSilverppmASTM D5185mLeadppmASTM D5185mCopperppmASTM D5185mVanadiumppmASTM D5185mVanadiumppmASTM D5185mVanadiumppmASTM D5185mVanadiumppmASTM D5185mFuelWC MethodGlycolwC MethodSoot %%*ASTM D5185mFuelWC MethodSoot %%*ASTM D7624SulfationAbs/rm*ASTM D7624SulfationAbs/rm*ASTM D7624Sulfationscalar*VisualDebrisscalar*VisualSodiumppmASTM D5185mBoronppmASTM D5185mBoronppmASTM D5185mBariumppmASTM D5185mBariumppmASTM D5185mManganeseppmASTM D5185mMagnesiumppmASTM D5185mMagnesiumppmASTM D5185m	Sample NumberClient InfoSample DateClient InfoMachine AgehrsClient InfoOil AgehrsClient InfoFilter AgehrsClient InfoOil ChangedClient InfoInfoFilter ChangedClient InfoInfoSample StatusSample Status>100ChromiumppmASTM D5185m>20NickelppmASTM D5185m>20NickelppmASTM D5185m>20SilverppmASTM D5185m>20LeadppmASTM D5185m>33AluminumppmASTM D5185m>330TinppmASTM D5185m>330TinppmASTM D5185m>20LeadppmASTM D5185m>330TinppmASTM D5185m>20VanadiumppmASTM D5185m>25PotassiumppmASTM D5185m>20FuelVCWC Method>5WaterInASTM D5185m>20FuelWC Method>20SSiltonAbs/rm"ASTM D7415>30Siltscalar*VisualNONEDebrisscalar*VisualNONEAppearancescalar*VisualNOREAppearancescalar*VisualNOREAppearancescalar*VisualNOREAppearancescalar*VisualNOREAppearancescalar*VisualNORE </th <th>Sample NumberClient InfoLW0008284Sample DateClient Info16 Jan 2024Machine AgehrsClient Info20Oil AgehrsClient Info0Filter AgehrsClient Info0Oil ChangedClient InfoNot ChangdFilter ChangedClient InfoN/ASample StatusVNORMALIronppmASTM D5185m>100ChromiumppmASTM D5185m>20NickelppmASTM D5185m>20PitaniumppmASTM D5185m>30AluminumppmASTM D5185m>20LeadppmASTM D5185m>20LeadppmASTM D5185m>30AluminumppmASTM D5185m>30ItinppmASTM D5185m>1VanadiumppmASTM D5185m>15Yellow Metalscalar*VisualNONESiliconppmASTM D5185m>202FuelWC Method>5<1.0WaterppmASTM D5185m>202FuelWC Method>0.2NEGSolifationAbs/cm**/ASTM D71853015.4Silitscalar*VisualNONENONESodiumAbs/cm**/VisualNONENONEAstm D715>3015.4SSilitscalar*VisualNONEDebrisscalar*VisualNOREAppearancescal</th> <th>Sample Number Client Info LW0008284 Machine Age hrs Client Info 16 Jan 2024 Machine Age hrs Client Info 20 Oil Age hrs Client Info 0 Filter Age hrs Client Info Not Chang Oil Changed Client Info Not Chang Sample Status Client Info N/A Iron ppm ASTM D5185m >100 12 Nickel ppm ASTM D5185m >20 <1 Nickel ppm ASTM D5185m >3 0 Silver ppm ASTM D5185m >30 1 Yanadium ppm ASTM D5185m >20 24 Yanadium ppm ASTM D5185m >21 Yanadium ppm ASTM D5185m >22 21</th>	Sample NumberClient InfoLW0008284Sample DateClient Info16 Jan 2024Machine AgehrsClient Info20Oil AgehrsClient Info0Filter AgehrsClient Info0Oil ChangedClient InfoNot ChangdFilter ChangedClient InfoN/ASample StatusVNORMALIronppmASTM D5185m>100ChromiumppmASTM D5185m>20NickelppmASTM D5185m>20PitaniumppmASTM D5185m>30AluminumppmASTM D5185m>20LeadppmASTM D5185m>20LeadppmASTM D5185m>30AluminumppmASTM D5185m>30ItinppmASTM D5185m>1VanadiumppmASTM D5185m>15Yellow Metalscalar*VisualNONESiliconppmASTM D5185m>202FuelWC Method>5<1.0WaterppmASTM D5185m>202FuelWC Method>0.2NEGSolifationAbs/cm**/ASTM D71853015.4Silitscalar*VisualNONENONESodiumAbs/cm**/VisualNONENONEAstm D715>3015.4SSilitscalar*VisualNONEDebrisscalar*VisualNOREAppearancescal	Sample Number Client Info LW0008284 Machine Age hrs Client Info 16 Jan 2024 Machine Age hrs Client Info 20 Oil Age hrs Client Info 0 Filter Age hrs Client Info Not Chang Oil Changed Client Info Not Chang Sample Status Client Info N/A Iron ppm ASTM D5185m >100 12 Nickel ppm ASTM D5185m >20 <1 Nickel ppm ASTM D5185m >3 0 Silver ppm ASTM D5185m >30 1 Yanadium ppm ASTM D5185m >20 24 Yanadium ppm ASTM D5185m >21 Yanadium ppm ASTM D5185m >22 21

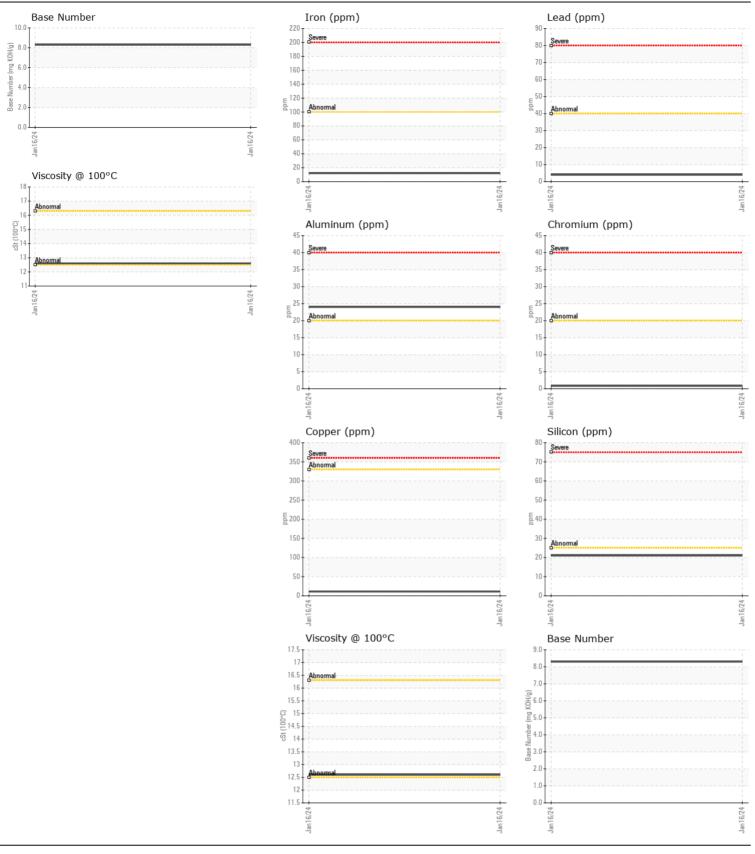
Base Number (BN) mg KOH/g ASTM D2896

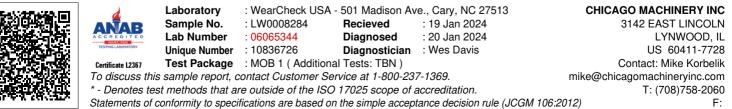
ASTM D445

Visc @ 100°C cSt

8.3

12.6





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