

Area

WEAR NORMAL CONTAMINATION ABNORMAL FLUID CONDITION NORMAL

1.1.1.1.1.1.1.

COMMENDATION

AMR-12 Street Machine Id 339324 LIEBHERR LH60 1204-86896 Component

Component Hydraulic System

AW HYDRAULIC OIL ISO 46 (240 GAL)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DJJ0013836	DJJ0017126	DJJ0017128
Sample Date		Client Info		03 Feb 2024	02 Feb 2024	26 Dec 2023
Machine Age	hrs	Client Info		15292	15292	15052
Oil Age	hrs	Client Info		1250	1250	1000
Filter Age	hrs	Client Info		250	250	1000
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				ABNORMAL	ABNORMAL	ATTENTION
						_
						7
						<1
			>10			0
						0
	ppm					0
	ppm					2
Lead	ppm			0	0	<1
	ppm					2
Tin	ppm		>5			0
Vanadium	ppm	ASTM D5185m			-	0
White Metal	scalar	*Visual	NONE	NONE		NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	nom	ASTM D5185m	>15	1	<1	<1
						1
	pp					NEG
						▲ 37579
						1458
						55
						11
						0
						0
				-		22/18/13
	scalar	,				NONE
						NONE
						NONE
						NORML
						NORML
					NEG	NEG
Sodium	ppm	ASTM D5185m		1	1	0
	ppm					0
	ppm					0
	ppm		5			<1
-	ppm			0	0	0
Magnesium	ppm				0	1
	ppm			69		108
Phosphorus	ppm			328	331	370
Zinc	ppm	ASTM D5185m	370	405	411	435
	Sample Number Sample Date Machine Age Oil Age Filter Age Oil Changed Filter Changed Sample Status Iron Chromium Nickel Titanium Silver Aluminum Lead Copper Tin Vanadium White Metal Yellow Metal Yellow Metal Yellow Metal Yellow Metal Yellow Metal Yellow Metal Yellow Metal Yellow Sand Particles >4 Particles >4 Mapearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	Sample NumberSample DateMachine AgehrsOil AgehrsOil AgehrsFilter AgehrsOil ChangedIronFilter Changedgample StatusIronppmChromiumppmNickelppmTitaniumppmSilverppmAluminumppmLeadppmCopperppmTinppmVanadiumppmWhite MetalscalarYellow MetalscalarSiliconppmParticles >4µmppmParticles >6µmParticles >6µmParticles >14µmParticles >6µmParticles >14µmScalarSilitscalarSiltscalarSolitscalarSolitscalarSolitscalarSand/DirtscalarSodiumppmBoronspmBariumppmMagnesieppmMagnesieppmMagnesieppmParticles >ppmppm	Sample NumberClient InfoSample DateClient InfoMachine AgehrsClient InfoOil AgehrsClient InfoFilter 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D5185mVanadiumppmASTM D5185mVanadiumppmASTM D5185mVanadiumppmASTM D5185mVallow Metalscalar*VisualSiliconppmASTM D5185mVaterWC Method>0.1Particles >6µmASTM D7647Particles >6µmASTM D7647Particles >71µmASTM D7647Siltscalar*VisualNORESand/DirtscalarSand/Dirtscalar*VisualNOREScalar*VisualAppearancescalar*VisualOol Cleanlinessscalar*VisualNOREScalar*VisualAppearancescalar*VisualOorscalar*VisualNOREScalar*VisualAppearancescalar*Visual<</th> <th>Sample NumberClient InfoDJJ0013836Sample DateClient Info03 Feb 2024Machine AgehrsClient Info15292Oil AgehrsClient Info1250Filter AgehrsClient InfoNot ChangdOil ChangedClient InfoNot ChangdFilter ChangedClient InfoNot ChangdSample StatusASTM D5185m>608ChromiumppmASTM D5185m>100TitaniumppmASTM D5185m>100SilverppmASTM D5185m>50AuminumppmASTM D5185m>50CopperppmASTM D5185m>50CopperppmASTM D5185m>50VanadiumppmASTM D5185m>50White Metalscalar*VisualNONENONESiliconppmASTM D5185m>110NONEValouties >4µmASTM D7647>5000A 6499565131Particles >6µmASTM D7647>640178178Particles >6µmASTM D7647>1000178Particles >71µmASTM D7647>1000Oil CleanlinessISO 4406 (c)21/19/1623/20/15NoNEScalar*VisualNONENONEParticles >71µmASTM D7647>100Oil CleanlinessISO 4406 (c)21/19/1623/20/15Siltscalar*VisualNON</th> <th>Sample Number Client Info DJJ0013836 DJJ0017126 Sample Date Client Info 03 Feb 2024 02 Feb 2024 Machine Age hrs Client Info 1250 1250 Oil Age hrs Client Info 1250 1250 Filter Age hrs Client Info Not Changd Not Changd Filter Changed Client Info Not Changd Not Changd Not Changd Sample Status </th>	Sample NumberClient InfoSample DateClient InfoMachine AgehrsClient InfoOil AgehrsClient InfoFilter AgehrsClient InfoOil ChangedClient InfoFilter ChangedClient InfoSample StatusClient InfoIronppmASTM D5185mASTM D5185m>60ChromiumppmASTM D5185mNickelppmASTM D5185mSilverppmASTM D5185mAluminumppmASTM D5185mSilverppmASTM D5185mLeadppmASTM D5185mCopperppmASTM D5185mVanadiumppmASTM D5185mVanadiumppmASTM D5185mVanadiumppmASTM D5185mVallow 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Sulfur

898

0.37

42.7

875

0.37

42.6

ppm ASTM D5185m 2500

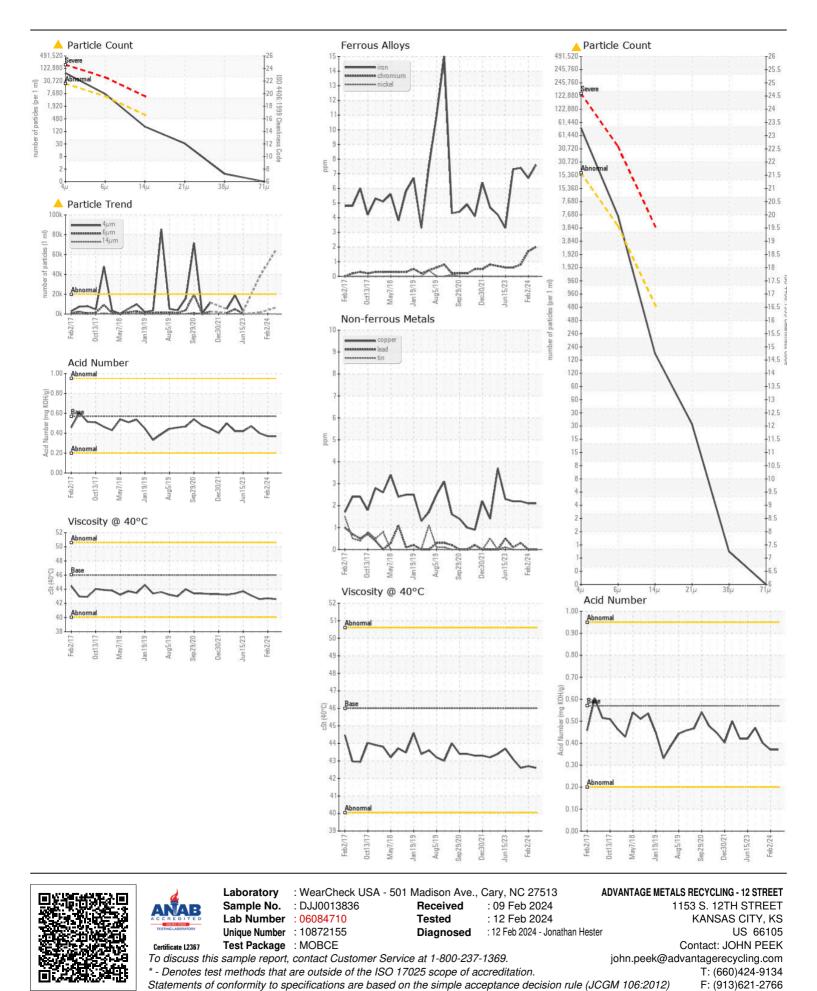
Acid Number (AN) mg KOH/g ASTM D8045 0.57

Visc @ 40°C cSt ASTM D445 46

1045

0.40

42.6



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