

K5 CONSTRUCTION CORPORATION - HODGKINS IL Machine Id 1849

Component Hydraulic System

LEAHY WOLF LUBEMASTER HYDRAULIC OIL (6 GAL)

R	EC	IEN	DAT	ION	

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

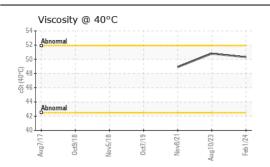
There is no indication of any contamination in the oil.

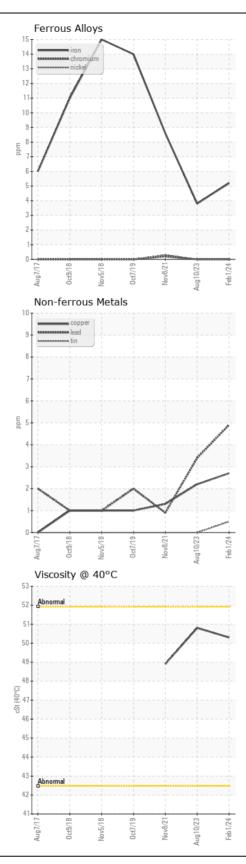
FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sample DateClient InfoIf Feb 202410 Aug 202308 Nov 202Machine AgehrsClient Info287025882057Oil AgehrsClient Info23395311048Filter AgehrsClient Info23395311048Oil ChangedClient InfoChangedNot ChangedChangedFilter ChangedClient InfoChangedNot ChangedChangedSample StatusClient InfoChangedNot ChangedNorMALIronppmASTM D5185>20549ChromiumppmASTM D5185>1000<1NickelppmASTM D5185>1000<1NickelppmASTM D5185>10112LeadppmASTM D5185>10112LeadppmASTM D5185>10<100VanadiumppmASTM D5185>10<100VanadiumppmASTM D5185>10<100VanadiumppmASTM D5185>200211PotassiumppmASTM D5185>20161011VatarvisualNONENONENONENONESiliconppmASTM D5185>200211PotassiumppmASTM D5185>20161011Sand/Dirtscalar'visual<	OGAL)						
Sample DateClient InfoIf Feb 202410 Aug 202308 Nov 202Machine AgehrsClient Info287025882057Oil AgehrsClient Info23395311048Filter AgehrsClient Info23395311048Oil ChangedClient InfoChangedNot ChangedChangedFilter ChangedClient InfoChangedNot ChangedChangedSample StatusClient InfoChangedNot ChangedNorMALIronppmASTM D5185>20549ChromiumppmASTM D5185>1000<1NickelppmASTM D5185>1000<1NickelppmASTM D5185>10112LeadppmASTM D5185>10112LeadppmASTM D5185>10<100VanadiumppmASTM D5185>10<100VanadiumppmASTM D5185>10<100VanadiumppmASTM D5185>200211PotassiumppmASTM D5185>20161011VatarvisualNONENONENONENONESiliconppmASTM D5185>200211PotassiumppmASTM D5185>20161011Sand/Dirtscalar'visual<	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine AgehrsClient Info287025882057Oil AgehrsClient Info23395311048Filter AgehrsClient Info23395311048Oil ChangedClient InfoChangedNot ChangedChangedFilter ChangedClient InfoChangedNot ChangedChangedSample StatusClient InfoChangedNot ChangedNorRMALIronppmASTMD5185>20549ChromiumppmASTMD5185>1000<1NickelppmASTMD5185>1000<1NickelppmASTMD5185>1000<1SilverppmASTMD5185>101112LeadppmASTMD5185>10533<1CopperppmASTMD5185>10533<1Tin<ppmASTMD5185>10513<1VanadiumppmASTMD5185>10<100VanadiumppmASTMD5185>20161011PlotassiumppmASTMD5185>20161011Veltow Metalscalar'VisualNONENONENONESiliconppmASTMD5185>20161011PotassiumppmASTMD5185>20161011Sand/Dirtscalar'VisualN	Sample Number		Client Info		LW0008507	LW0007683	LW0003619
Oil AgehrsClient Info23395311048Filter AgehrsClient Info23395311048Oil ChangedClient InfoChangedNot ChangedChangedFilter Changed1Client InfoChangedNot ChangedChangedSample StatusSample StatusNor MALNORMALNORMALNORMALIronppmASTM D5185>1000<11	Sample Date		Client Info		01 Feb 2024	10 Aug 2023	08 Nov 2021
Filter AgehrsClient Info23395311048Oil ChangedClient InfoChangedNot ChangedChangedFilter ChangedClient InfoChangedNot ChangedChangedSample StatusNor MRALNor MALLNORMALNORMALIronppmASTM D5185m>20549ChromiumppmASTM D5185m>1000<1	Machine Age	hrs	Client Info		2870	2588	2057
Oil ChangedClient InfoChangedNot ChangedChangedFilter ChangedClient InfoChangedNot ChangedNot ChangedChangedSample StatusNORMALNORMALNORMALNORMALNORMALIronppmASTM D5185m>20549ChromiumppmASTM D5185m>1000<1NickelppmASTM D5185m>1000<1NickelppmASTM D5185m>1000<1SilverppmASTM D5185m>1011122LeadppmASTM D5185m>1053<1CopperppmASTM D5185m>10<100VanadiumppmASTM D5185m>10<100VanadiumppmASTM D5185m>10<100Vellow Metalscalar"VisualNONENONENONENONESiliconppmASTM D5185m>20161011PotassiumppmASTM D5185m>200211VaterWC Method>0.1NORENONENONESiliconppmASTM D5185m>200211PotassiumppmASTM D5185m>200211PotassiumppmASTM D5185m>200211PotassiumppmASTM D5185m>200211 <th>Oil Age</th> <th>hrs</th> <th>Client Info</th> <th></th> <th>2339</th> <th>531</th> <th>1048</th>	Oil Age	hrs	Client Info		2339	531	1048
Filter Changed Sample StatusClient InfoChanged NORMALNot Changed NORMALNormal NORMALNormal NORMALIronppmASTM DS185m>20549ChromiumppmASTM DS185m>1000<1NickelppmASTM DS185m>1000<1NickelppmASTM DS185m>1000<1TitaniumppmASTM DS185m>10112LeadppmASTM DS185m>1053<1CopperppmASTM DS185m>1053<1TinppmASTM DS185m>10<100VanadiumppmASTM DS185m>10<100VanadiumppmASTM DS185m>20161011PotassiumppmASTM DS185m>200211VaterWC Method>.1NONENONENONENONESiliconppmASTM DS185m>200211VaterWC Method>.1NORENONENONESilitscalar'VisualNONENONENONENONESodu/Dirtscalar'VisualNORENORENORENOREAstm DS185m>.0NORENORENORENORESodumppmASTM DS185m417BoronppmASTM DS185m0<	Filter Age	hrs	Client Info		2339	531	1048
Sample StatusNORMALNORMALNORMALNORMALIronppmASTM D5185m>20549ChromiumppmASTM D5185m>1000<1NickelppmASTM D5185m>1000<1TitaniumppmASTM D5185m>1000<1SilverppmASTM D5185m>1011112LeadppmASTM D5185m>1053<1CopperppmASTM D5185m>1053<1TinppmASTM D5185m>10<100VanadiumppmASTM D5185m>10<100VanadiumppmASTM D5185m>10<100VanadiumppmASTM D5185m>20161011PotassiumppmASTM D5185m>200211Vellow Metalscalar*VisualNONENONENONENONESiliconppmASTM D5185m>200211VaterWC Method>0.1NEGNONENONESilitscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMNORMLNORMLNORMAppearancescalar*VisualNORMNORMLNORMLNORMBoronppmASTM D5185m4171Boron<	Oil Changed		Client Info		Changed	Not Changd	Changed
Iron ppm ASTM D5185m >20 5 4 9 Chromium ppm ASTM D5185m >10 0 0 <1 Nickel ppm ASTM D5185m >10 0 0 <1 Titanium ppm ASTM D5185m >10 0 0 0 Aluminum ppm ASTM D5185m >10 1 1 2 Lead ppm ASTM D5185m >10 5 3 <1 0 Copper ppm ASTM D5185m >10 <1 0 0 Vanadium ppm ASTM D5185m >10 <1 0 0 Vanadium ppm ASTM D5185m >10 <1 0 0 Vanadium ppm ASTM D5185m >20 I6 10 11 Vanadium ppm ASTM D5185m >20 0 2 11 Vanadium ppm ASTM D5185m >20 0	Filter Changed		Client Info		Changed	Not Changd	Changed
Chromium ppm ASTM D5185m >10 0 0 <1	Sample Status				NORMAL	NORMAL	NORMAL
Chromium ppm ASTM D5185m >10 0 0 <1					_	4	
NickelppmASTM D5185m>1000<1TitaniumppmASTM D5185m0000AluminumppmASTM D5185m>10112LeadppmASTM D5185m>1053<1	-						
Titanium ppm ASTM D5185m <1							
Silver ppm ASTM D5185m 0 0 0 Aluminum ppm ASTM D5185m >10 1 1 2 Lead ppm ASTM D5185m >10 5 3 <1 Copper ppm ASTM D5185m >10 <1 0 0 Vanadium ppm ASTM D5185m >10 <1 0 0 Vanadium ppm ASTM D5185m >10 <1 0 0 Vanadium ppm ASTM D5185m >10 <1 0 0 White Metal scalar 'Visual NONE NONE NONE NONE Yellow Metal scalar 'Visual NONE NONE NONE NONE Silicon ppm ASTM D5185m >20 0 2 11 Vater wC Method >0.1 NEG NORE NORE NORE Debris scalar 'Visual NORE NORE <				>10	-	-	
Aluminum ppm ASTM D5185m >10 1 1 2 Lead ppm ASTM D5185m >10 5 3 <1 Copper ppm ASTM D5185m >10 <1 0 0 Tin ppm ASTM D5185m >10 <1 0 0 Vanadium ppm ASTM D5185m >10 <1 0 0 White Metal scalar *Visual NONE NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE NONE Silicon ppm ASTM D5185m >20 0 2 11 Vater WC Method >0.1 NEG NORE NORE Debris scalar *Visual NONE NONE NORE NORM Appearance scalar *Visual NORM NORML NORML NORM Goro scalar *Visual </th <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>							
Lead ppm ASTM D5185m >10 5 3 <1				10			
CopperppmASTM D5185m>75321TinppmASTM D5185m>10<100VanadiumppmASTM D5185m>0<100White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONENONESiliconppmASTM D5185m>20161011PotassiumppmASTM D5185m>200211WaterWC Method>0.1NEGNEGNEGSilitscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMNORMLNORMLNORMOdorscalar*VisualNORHNORMLNORMLNORMGoronppmASTM D5185m417BoronppmASTM D5185m0<110MolybdenumppmASTM D5185m<41<1<<1MagnesiumppmASTM D5185m<41<1<<1MagnesiumppmASTM D5185m<41<1<<1PhosphorusppmASTM D5185m<41<1<<1MagnesiumppmASTM D5185m<41<1<<1Phosphorus <t< th=""><th></th><th></th><th></th><th></th><th>-</th><th></th><th></th></t<>					-		
TinppmASTM D5185m>10<1							
Vanadium ppm ASTM D5185m <1	Copper	ppm	ASTM D5185m	>75	3	2	
White Metalscalar*VisualNONENONENONENONENONEYellow Metalscalar*VisualNONENONENONENONENONENONESiliconppmASTM D5185m>200211PotassiumppmASTM D5185m>200211WaterWC Method>0.1NEGNEGNEGSilitscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNORENORMLNONENORMAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLSodiumppmASTM D5185m417BoronppmASTM D5185m666ManganeseppmASTM D5185m666ManganeseppmASTM D5185m104105103CalciumppmASTM D5185m276928762714PhosphorusppmASTM D5185m118412431118SulfurppmASTM D5185m328939566108	Tin	ppm	ASTM D5185m	>10	<1	0	0
Yellow Metalscalar*VisualNONENONENONENONENONESiliconppmASTM D5185m>20161011PotassiumppmASTM D5185m>200211WaterWC Method>0.1NEGNEGNEGSiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMNORMLNORMLNORMLOdorscalar*VisualNORMNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1REGNEGSodiumppmASTM D5185m417BoronppmASTM D5185m666ManganeseppmASTM D5185m104105103AgresiumppmASTM D5185m276928762714PhosphorusppmASTM D5185m118412431118SulfurppmASTM D5185m118412431118	Vanadium	ppm	ASTM D5185m		<1	0	0
SiliconppmASTM D5185m>20161011PotassiumppmASTM D5185m>200211WaterWC Method>0.1NEGNEGNEGSiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONEIGHTNONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLSodiumppmASTM D5185m417BoronppmASTM D5185m0<1	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
PotassiumppmASTM D5185m>200211WaterWC Method>0.1NEGNEGNEGSiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONELIGHTNONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLSodiumppmASTM D5185m417BoronppmASTM D5185m0<10MolybdenumppmASTM D5185m666ManganeseppmASTM D5185m<104105103CalciumppmASTM D5185m276928762714PhosphorusppmASTM D5185m118412431118SulfurppmASTM D5185m328939566108	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
WaterWC Method>0.1NEGNEGNEGSiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONELIGHTNONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGNEGNEGSodiumppmASTM D5185m417REGREGREGBariumppmASTM D5185mImage9970REGREGREGREGREGMolybdenumppmASTM D5185mImageImag	Silicon	ppm	ASTM D5185m	>20	16	10	11
Siltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONELIGHTNONENONESand/Dirtscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMNORMLNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGNEGNEGSodiumppmASTM D5185m4177BoronppmASTM D5185m0<100MolybdenumppmASTM D5185m666ManganeseppmASTM D5185m<104105103CalciumppmASTM D5185m276928762714PhosphorusppmASTM D5185m885990916ZincppmASTM D5185m118412431118SulfurppmASTM D5185m328939566108	Potassium	ppm	ASTM D5185m	>20	0	2	11
Debrisscalar*VisualNONELIGHTNONENONESand/Dirtscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGNEGSodiumppmASTM D5185m417BoronppmASTM D5185m0<10MolybdenumppmASTM D5185m0<10MolybdenumppmASTM D5185m<104105103CalciumppmASTM D5185m276928762714PhosphorusppmASTM D5185m<885990916ZincppmASTM D5185m<328939566108	Water		WC Method	>0.1	NEG	NEG	NEG
Sand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGNEGNEGSodiumppmASTM D5185m417RegRegBoronppmASTM D5185m0<100MolybdenumppmASTM D5185m6666ManganeseppmASTM D5185m<104105103CalciumppmASTM D5185m276928762714PhosphorusppmASTM D5185m885990916ZincppmASTM D5185m118412431118SulfurppmASTM D5185m328939566108	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearancescalar*VisualNORML<	Debris	scalar	*Visual	NONE	LIGHT	NONE	NONE
Odorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGNEGSodiumppmASTM D5185m417BoronppmASTM D5185m899970BariumppmASTM D5185m0<10MolybdenumppmASTM D5185m6666ManganeseppmASTM D5185m<104105103CalciumppmASTM D5185m276928762714PhosphorusppmASTM D5185m885990916ZincppmASTM D5185m118412431118SulfurppmASTM D5185m328939566108	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Emulsified Waterscalar*Visual>0.1NEGNEGNEGSodiumppmASTM D5185m417BoronppmASTM D5185m899970BariumppmASTM D5185m0<10MolybdenumppmASTM D5185m666ManganeseppmASTM D5185m<11<1<1MagnesiumppmASTM D5185m276928762714PhosphorusppmASTM D5185m276928762714PhosphorusppmASTM D5185m885990916ZincppmASTM D5185m118412431118SulfurppmASTM D5185m328939566108	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Sodium ppm ASTM D5185m 4 1 7 Boron ppm ASTM D5185m 89 99 70 Barium ppm ASTM D5185m 0 <1	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Boron ppm ASTM D5185m 89 99 70 Barium ppm ASTM D5185m 0 <1 0 Molybdenum ppm ASTM D5185m 6 6 6 Manganese ppm ASTM D5185m <1 <1 <1 Magnesium ppm ASTM D5185m 104 105 103 Calcium ppm ASTM D5185m 2769 2876 2714 Phosphorus ppm ASTM D5185m 885 990 916 Zinc ppm ASTM D5185m 1184 1243 1118 Sulfur ppm ASTM D5185m 3289 3956 6108	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Barium ppm ASTM D5185m 0 <1	Sodium	ppm	ASTM D5185m		4	1	7
Molybdenum ppm ASTM D5185m 6 6 6 Manganese ppm ASTM D5185m <1 <1 <1 Magnesium ppm ASTM D5185m 104 105 103 Calcium ppm ASTM D5185m 2769 2876 2714 Phosphorus ppm ASTM D5185m 885 990 916 Zinc ppm ASTM D5185m 1184 1243 1118 Sulfur ppm ASTM D5185m 3289 3956 6108	Boron	ppm	ASTM D5185m		89	99	70
Manganese ppm ASTM D5185m <1	Barium	ppm	ASTM D5185m		0	<1	0
Magnesium ppm ASTM D5185m 104 105 103 Calcium ppm ASTM D5185m 2769 2876 2714 Phosphorus ppm ASTM D5185m 885 990 916 Zinc ppm ASTM D5185m 1184 1243 1118 Sulfur ppm ASTM D5185m 3289 3956 6108	Molybdenum	ppm	ASTM D5185m		6	6	6
Calcium ppm ASTM D5185m 2769 2876 2714 Phosphorus ppm ASTM D5185m 885 990 916 Zinc ppm ASTM D5185m 1184 1243 1118 Sulfur ppm ASTM D5185m 3289 3956 6108	Manganese	ppm	ASTM D5185m		<1	<1	<1
Calcium ppm ASTM D5185m 2769 2876 2714 Phosphorus ppm ASTM D5185m 885 990 916 Zinc ppm ASTM D5185m 1184 1243 1118 Sulfur ppm ASTM D5185m 3289 3956 6108	Magnesium		ASTM D5185m		104	105	103
Phosphorus ppm ASTM D5185m 885 990 916 Zinc ppm ASTM D5185m 1184 1243 1118 Sulfur ppm ASTM D5185m 3289 3956 6108	-		ASTM D5185m				
Zinc ppm ASTM D5185m 1184 1243 1118 Sulfur ppm ASTM D5185m 3289 3956 6108	Phosphorus		ASTM D5185m		885		916
Sulfur ppm ASTM D5185m 3289 3956 6108			ASTM D5185m		1184	1243	1118
	Sulfur		ASTM D5185m				
	Visc @ 40°C	cSt	ASTM D445		50.3	50.8	48.9

Submitted By: NOELLE TERRAULT







Test Package : FLEET Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. * - 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)

Received

Diagnosed

Tested

6301 S EAST AVENUE HODGKINS, IL US 60525 Contact: Dave Gorski daveg@k-five.net T: (630)257-5600 F:

Laboratory

Sample No.

Lab Number : 06087840

Unique Number : 10875285

: LW0008507

Submitted By: NOELLE TERRAULT

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