

K5 CONSTRUCTION CORPORATION - HODGKINS IL

2028

Hydraulic System

LEAHY WOLF LUBEMASTER HYDRAULIC OIL (50 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

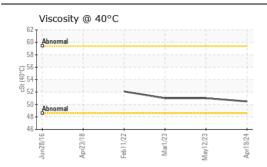
There is no indication of any contamination in the oil.

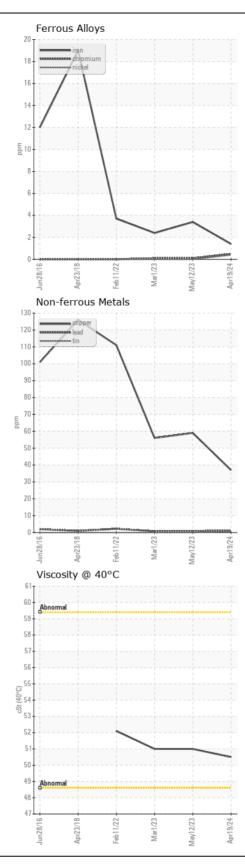
FLUID CONDITION

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

TestUOMMethodLimitAbCurrentHistory1History2Sample NumberClient InfoIM0008850UM0008984LM0008840Sample DateClient Info19 Apr 202412 May 202301 Mar 2023Machine AgehrsClient Info627358475847Oil AgehrsClient Info4265818258Filter AgehrsClient InfoChangedChangedNot ChangedOil ChangedClient InfoChangedChangedNot ChangedFilter ChangedClient InfoChangedChangedNot ChangedFilter ChangedpmASTM D5185>20132ChromiumppmASTM D5185>10<1<1<1NickelpmASTM D5185>10<1<1<1<1SilverppmASTM D5185>102<1<1<1SilverppmASTM D5185>101<1<1<1<1LeadppmASTM D5185>101<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<	(50 GAL)						
Sample DateClient InfoIP 97 202412 May 202301 Mar 2023Machine AgehrsClient Info627358475847Oil AgehrsClient Info4265818258Filter AgehrsClient InfoChangedChangedNot ChangedOil ChangedClient InfoChangedChangedNot ChangedFilter ChangedClient InfoChangedChangedNot ChangedSample StatusClient InfoChangedChangedNot ChangedSample StatusStatusSave132ChromiumppmASTM D5185>20132ChromiumppmASTM D5185>10<1<1<1NickelppmASTM D5185>10<1<1<1SilverppmASTM D5185>102<1<1LeadppmASTM D5185>101<1<1CopperppmASTM D5185>101<1<1VanadiumppmASTM D5185>10<100VanadiumppmASTM D5185>10<1<1<1VanadiumppmASTM D5185>20<1487PotassiumppmASTM D5185>20<14<1<1VanadiumppmASTM D5185>20<14<1<1VanadiumppmASTM D5185>20<14<1<1Vanadium </th <th>Test</th> <th>UOM</th> <th>Method</th> <th>Limit/Abn</th> <th>Current</th> <th>History1</th> <th>History2</th>	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine AgehrsClient Info627358475847Oil AgehrsClient Info4265818258Filter AgehrsClient Info4265818258Oil ChangedClient InfoChangedChangedNot ChangedFilter ChangedClient InfoChangedChangedNot ChangedSample StatusClient InfoChangedChangedNot ChangedIronppmASTM D5185m>20132ChromiumppmASTM D5185m>10<1<1<1NickelppmASTM D5185m>10<1<1<1SilverppmASTM D5185m>10<1<1<1SilverppmASTM D5185m>101<1<1LeadppmASTM D5185m>10<100VanadumppmASTM D5185m>10<100VanadumppmASTM D5185m>201487PotassiumppmASTM D5185m>201487PotassiumppmASTM D5185m>201487PotassiumppmASTM D5185m>201487PotassiumppmASTM D5185mS201487PotassiumppmASTM D5185mS201487PotassiumppmASTM D5185mS201487Potassiumppm	Sample Number		Client Info		LW0008850	LW0006984	LW0006345
Oil AgehrsClient Info4265818258Filter AgehrsClient Info4265818258Oil ChangedClient InfoChangedChangedNot ChangedFilter ChangedMClient InfoChangedNot ChangedSample StatusSEVERABNORMALSEVEREABNORMALIronppmASTM D5185>20132ChromiumppmASTM D5185>10<1<1<1NickelppmASTM D518510<1<1<1NickelppmASTM D518510<1<1<1SilverppmASTM D5185>101<1<1LeadppmASTM D5185>101<1<1CopperppmASTM D5185>10<100ValuendumppmASTM D5185>10<100ValuendumppmASTM D5185>10<100ValuendumppmASTM D5185>10<100ValuendumppmASTM D5185>10<100ValuendumppmASTM D5185>10<100ValuendumppmASTM D5185>10<100ValuendumppmASTM D5185>20<11<1LeadppmASTM D5185>20<14<1<1SiltonppmASTM D5185>20<	Sample Date		Client Info		19 Apr 2024	12 May 2023	01 Mar 2023
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Filter Changed Sample StatusClient InfoChanged NoRIMALNot Changed Severe NORIMALNot Changed Severe Severe ABNORMALIronppmASTM D5185m>20132ChromiumppmASTM D5185m>10<1<1<1NickelppmASTM D5185m>10<100TitaniumppmASTM D5185mI<1<1<1SilverppmASTM D5185m510<1<1<1LeadppmASTM D5185m>101<1<1LeadppmASTM D5185m>101<1<1LeadppmASTM D5185m>10<100VanadiumppmASTM D5185m>10<100VanadiumppmASTM D5185m>10<100VanadiumppmASTM D5185m>10<100VanadiumppmASTM D5185m>20<1487PotassiumppmASTM D5185m>20<1487PotassiumppmASTM D5185m>20<1487PotassiumppmASTM D5185m>20<1487PotassiumppmASTM D5185m>20<14<1<1ASTM D5185m>20<1487<1<1PotassiumppmASTM D5185mNONENONENONENONESand/Dirt <t< th=""><th>Filter Age</th><th>hrs</th><th>Client Info</th><th></th><th>426</th><th>5818</th><th>258</th></t<>	Filter Age	hrs	Client Info		426	5818	258
Sample StatusNORMALSEVEREABNORMALIronppmASTM D5185>20013.32ChromiumppmASTM D5185>100<1<1<1NickelppmASTM D5185>100<10.00TitaniumppmASTM D5185>10<1<1<1SilverppmASTM D5185>102<1<1LeadppmASTM D5185>101<1<1LeadppmASTM D5185>101<1<1CopperppmASTM D5185>10<100VanadiumppmASTM D5185>10<100VanadiumppmASTM D5185>10<100VanadiumppmASTM D5185>10<100VanadiumppmASTM D5185>20<1487Vellow Metalscalar*VisualNONENONENONENONESiliconppmASTM D5185>20<1487PotassiumppmASTM D5185>20<1487PotassiumppmASTM D5185>20<14<1<1<GotoppmASTM D5185>20<14<1<1<GotoppmASTM D5185>20<14<1<1<GotoppmASTM D5185>20<14<1<1<GotoppmASTM D5185<	Oil Changed		Client Info		Changed	Changed	Not Changd
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ChromiumppmASTM D5185m>10<1	Sample Status				NORMAL	SEVERE	ABNORMAL
ChromiumppmASTM D5185m>10<1				00	_		0
NickelppmASTM D5185m>10<1	-			-		-	
Titanium ppm ASTM D5185m <1							
SilverppmASTM D5185m>10000AluminumppmASTM D5185m>102<11LeadppmASTM D5185m>101<1<1CopperppmASTM D5185m>75375956TinppmASTM D5185m>10<100VanadiumppmASTM D5185m>10<100White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONESiliconppmASTM D5185m>20<14887PotassiumppmASTM D5185m>20<14887PotassiumppmASTM D5185m>20<14887Silitscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNORNONENONENONESand/Dirtscalar*VisualNORMNORMLNORMLNORMLAppearancescalar*VisualNORNORMLNORMLNORMLGorscalar*VisualNORNORMNORMLNORMLGorscalar*VisualNORMNORMLNORMLNORMLAppearancescalar*VisualNORNORMLNORMLNORMLGorscalar*VisualNORMNORMLNORMLNORMLMultified Watersca				>10		-	
AluminumppmASTM D5185m>102<1							
Lead ppm ASTM D5185m >10 1 <1				10			
Copper ppm ASTM D5185m >75 37 59 56 Tin 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 NONE Silicon ppm ASTM D5185m >20 14 8 7 Potassium ppm ASTM D5185m >20 <1 <1 <1 Water WC Method >0.1 NEG NEG NEG Silt scalar *Visual NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE NORE Appearance scalar *Visual NORML NORML NORML NORML Odor scalar *Visual							
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Yellow Metalscalar*VisualNONENONENONENONESiliconppmASTM D5185m>201487PotassiumppmASTM D5185m>20<1<1<1WaterWC Method>0.1NEGNEGNEGSiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLMORMLHAZYNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLDdorscalar*VisualNORMLNORMLNORMLNORMLSodiumppmASTM D5185m335BariumppmASTM D5185m6668993BariumppmASTM D5185m555ManganeseppmASTM D5185m<10<1MagnesiumppmASTM D5185m3336973CalciumppmASTM D5185m265827842763PhosphorusppmASTM D5185m11048935932ZincppmASTM D5185m123112061178SulfurppmASTM D5185m336530393323				NONE		-	
SiliconppmASTM D5185m>201487PotassiumppmASTM D5185m>20<1				_			
PotassiumppmASTM D5185m>20<1	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
WaterWC Method>0.1NEGNEGNEGSiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLHAZYNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEG0.2%0.2%SodiumppmASTM D5185m335BoronppmASTM D5185m6668993BariumppmASTM D5185m555MagnesiumppmASTM D5185m140<11MagnesiumppmASTM D5185m265827842763PhosphorusppmASTM D5185m11048935932ZincppmASTM D5185m123112061178SulfurppmASTM D5185m3336530393323	Silicon	ppm	ASTM D5185m	>20	14	8	7
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Odor scalar *Visual NORML NORML NORML NORML Emulsified Water scalar *Visual >0.1 NEG 0.2% 0.2% Sodium ppm ASTM D5185m 3 3 5 Boron ppm ASTM D5185m 66 89 93 Barium ppm ASTM D5185m 0 0 0 Molybdenum ppm ASTM D5185m 5 5 5 Magnesium ppm ASTM D5185m <41 0 <1 Magnesium ppm ASTM D5185m 2658 2784 2763 Phosphorus ppm ASTM D5185m 1048 935 932 Zinc ppm ASTM D5185m 1231 1206 1178 Sulfur ppm ASTM D5185m 3365 3039 3323	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Emulsified Water scalar *Visual >0.1 NEG 0.2% 0.2% Sodium ppm ASTM D5185m 3 3 5 Boron ppm ASTM D5185m 66 89 93 Barium ppm ASTM D5185m 0 0 0 Molybdenum ppm ASTM D5185m 5 5 5 Manganese ppm ASTM D5185m < 41 0 <1 Magnesium ppm ASTM D5185m 83 69 73 Calcium ppm ASTM D5185m 2658 2784 2763 Phosphorus ppm ASTM D5185m 1048 935 932 Zinc ppm ASTM D5185m 1231 1206 1178 Sulfur ppm ASTM D5185m 3365 3039 3323	Appearance	scalar	*Visual	NORML	NORML	HAZY	NORML
Sodium ppm ASTM D5185m 3 3 5 Boron ppm ASTM D5185m 66 89 93 Barium ppm ASTM D5185m 0 0 0 Molybdenum ppm ASTM D5185m 0 0 0 Manganese ppm ASTM D5185m <1 0 <1 Magnesium ppm ASTM D5185m 83 69 73 Calcium ppm ASTM D5185m 2658 2784 2763 Phosphorus ppm ASTM D5185m 1048 935 932 Zinc ppm ASTM D5185m 1231 1206 1178 Sulfur ppm ASTM D5185m 33365 3039 3323	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Boron ppm ASTM D5185m 66 89 93 Barium ppm ASTM D5185m 0 0 0 Molybdenum ppm ASTM D5185m 5 5 Manganese ppm ASTM D5185m <1 0 <1 Magnesium ppm ASTM D5185m 83 69 73 Calcium ppm ASTM D5185m 2658 2784 2763 Phosphorus ppm ASTM D5185m 1048 935 932 Zinc ppm ASTM D5185m 1231 1206 1178 Sulfur ppm ASTM D5185m 33365 3039 3323	Emulsified Water	scalar	*Visual	>0.1	NEG	0.2%	0.2%
Barium ppm ASTM D5185m 0 0 0 Molybdenum ppm ASTM D5185m 5 5 Manganese ppm ASTM D5185m <1 0 <1 Magnesium ppm ASTM D5185m <383 69 73 Calcium ppm ASTM D5185m 2658 2784 2763 Phosphorus ppm ASTM D5185m 1048 935 932 Zinc ppm ASTM D5185m 1231 1206 1178 Sulfur ppm ASTM D5185m 3365 3039 3323	Sodium	ppm	ASTM D5185m		3	3	5
Molybdenum ppm ASTM D5185m 5 5 Manganese ppm ASTM D5185m <1 0 <1 Magnesium ppm ASTM D5185m 83 69 73 Calcium ppm ASTM D5185m 2658 2784 2763 Phosphorus ppm ASTM D5185m 1048 935 932 Zinc ppm ASTM D5185m 1231 1206 1178 Sulfur ppm ASTM D5185m 3365 3039 3323	Boron	ppm	ASTM D5185m		66	89	93
Manganese ppm ASTM D5185m <1	Barium	ppm	ASTM D5185m		0	0	0
Magnesium ppm ASTM D5185m 83 69 73 Calcium ppm ASTM D5185m 2658 2784 2763 Phosphorus ppm ASTM D5185m 1048 935 932 Zinc ppm ASTM D5185m 1231 1206 1178 Sulfur ppm ASTM D5185m 3365 3039 3323	Molybdenum	ppm	ASTM D5185m		5	5	5
Calcium ppm ASTM D5185m 2658 2784 2763 Phosphorus ppm ASTM D5185m 1048 935 932 Zinc ppm ASTM D5185m 1231 1206 1178 Sulfur ppm ASTM D5185m 3365 3039 3323	Manganese	ppm	ASTM D5185m		<1	0	<1
Phosphorus ppm ASTM D5185m 1048 935 932 Zinc ppm ASTM D5185m 1231 1206 1178 Sulfur ppm ASTM D5185m 3365 3039 3323	Magnesium	ppm	ASTM D5185m		83	69	73
Zinc ppm ASTM D5185m 1231 1206 1178 Sulfur ppm ASTM D5185m 3365 3039 3323	Calcium	ppm	ASTM D5185m		2658	2784	2763
Sulfur ppm ASTM D5185m 3365 3039 3323	Phosphorus	ppm	ASTM D5185m		1048	935	932
	Zinc	ppm	ASTM D5185m		1231	1206	1178
Visc @ 40°C cSt ASTM D445 50.5 51.0 51.0	Sulfur	ppm	ASTM D5185m		3365	3039	3323

Submitted By: NOELLE TERRAULT





K5 CONSTRUCTION CORPORATION : WearCheck USA - 501 Madison Ave., Cary, NC 27513 : LW0008850 Received : 24 Apr 2024 6301 S EAST AVENUE Lab Number : 06159963 Tested : 25 Apr 2024 HODGKINS, IL Unique Number : 10995386 Diagnosed : 25 Apr 2024 - Wes Davis US 60525 Contact: FRANCISCO MUNOZ To discuss this sample report, contact Customer Service at 1-800-237-1369. franciscom@k-five.net * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

Certificate L2367

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Laboratory

Sample No.

Test Package : FLEET

Submitted By: NOELLE TERRAULT Page 2 of 2