

WEAR ABNORMAL CONTAMINATION ABNORMAL FLUID CONDITION NORMAL



KEMP QUARRIES / HULBERT

WL067 Component Rear Right Final Drive

MOBIL MOBILTRANS HD 50 (--- GAL)

RECOMMENDATION

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

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VV	А	Π

High concentration of visible metal present. Gear wear is indicated. Bearing and/or bushing wear is indicated.

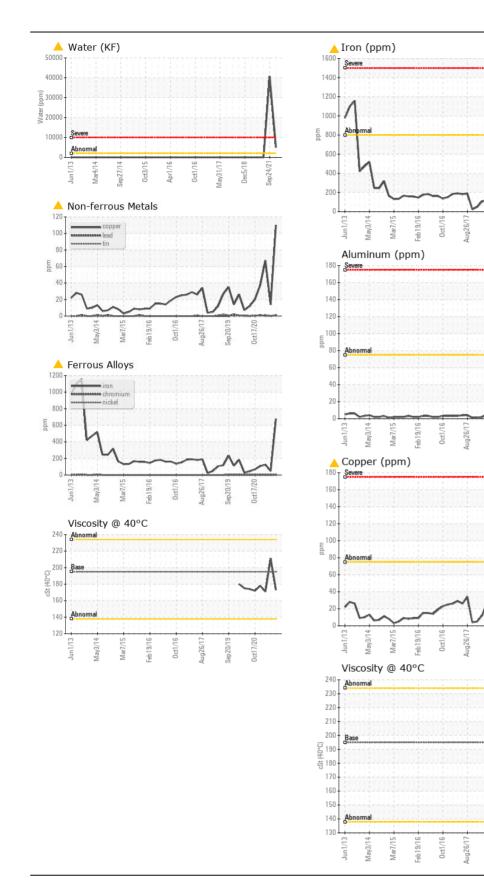
CONTAMINATION

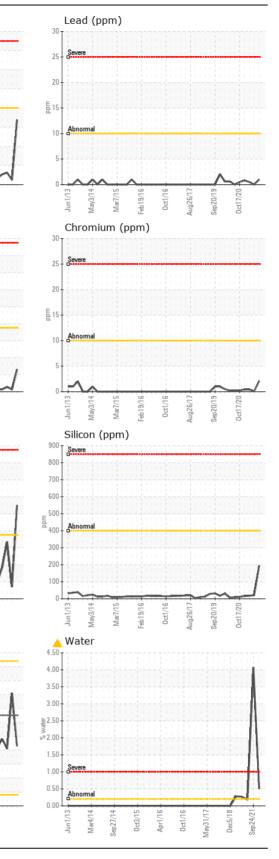
There is a moderate concentration of water present in the oil.

FLUI	והואר	TION

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

Sample DateClient InfoD5 Apr 202424 Sep 202128 May 202Machine AgehrsClient Info321482914728617Oil AgehrsClient Info000Filter AgehrsClient InfoCChangedNot ChangedFilter AgehrsClient InfoCChangedNot ChangedChangedFilter ChangedCClient InfoNoneNoneNANoneSample StatusClient InfoNoneASTM 05185ASMASTM 05185ASMASTM 05185Sample StatusDpmASTM 05185>102<1<1<1IronppmASTM 05185>102<1<1<1NickelppmASTM 05185>102<1<1<1<1SilverppmASTM 05185>10110<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<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1							
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Machine AgehrsClient InfoJ21482914728617Oil AgehrsClient Info0000Filter AgehrsClient InfoIChangedNoreNANoneGlient AngedClient InfoINoneN/ANoneNANoneSample StatusClient InfoINoneN/ANoneABNORMAIronppmASTM D5185>800A 676483123ChromiumppmASTM D5185>102<1<1NickelppmASTM D5185>502<10TitaniumppmASTM D5185>102<10<1SilverppmASTM D5185>7526266LeadppmASTM D5185>75262666LeadppmASTM D5185>58101010101010101010101010101010101010110101010110110110111111111111111111111111	Sample Number		Client Info		PCA0085910	PCA0048713	PCA0037865
Oil AgehrsClient InfoOOOFilter AgehrsClient InfoAANot ChangedChangedFilter ChangedIClient InfoNoneNANoneSample StatusClient InfoANoneSEVEREABNORMALIronppmASTM D5185AS00AGT48N ANAInconppmASTM D5185S40AC-NickelppmASTM D5185S502NickelppmASTM D5185S502SilverppmASTM D5185S702AluminumppmASTM D5185S1010-AgeppmASTM D5185S1010-CopperppmASTM D5185S1010-YanadiumppmASTM D5185S10-10VanadiumppmASTM D5185S20A101VanadiumppmASTM D5185S20A100ValueAstmNONE01ValueAstm D5185S20A1000ValueppmASTM D5185S20A100ValueppmASTM D5185S20A100ValueppmASTM D5185S20A100ValueppmASTM D5185S20A0	Sample Date		Client Info		05 Apr 2024	24 Sep 2021	28 May 2021
Filter Age OII ChangedIclient InfoIclient Info <thi< th=""><th>Machine Age</th><th>hrs</th><th>Client Info</th><th></th><th>32148</th><th>29147</th><th>28617</th></thi<>	Machine Age	hrs	Client Info		32148	29147	28617
Ol ChangedClient IntoKhangedNot ChangedChangedNot ChangedChangedNot ChangedChangedNot ChangedSourceSample StatusSTM D5186>800ASTM D5186>1024.812.123.12IronppmASTM D5186>102<1<13.12 <t< th=""><th>Oil Age</th><th>hrs</th><th>Client Info</th><th></th><th>0</th><th>0</th><th>0</th></t<>	Oil Age	hrs	Client Info		0	0	0
Filter Changed Sample StatusClient InfoNoneN/ANoneSample StatusASTM D5185mABNORMALSEVEREABNORMALIronppmASTM D5185m>102<1<1NickelppmASTM D5185m>522<10TitaniumppmASTM D5185m>522<10SilverppmASTM D5185m>75262<10AluminumppmASTM D5185m>75262<10LeadppmASTM D5185m>75210101CopperppmASTM D5185m>752100101VanadiumppmASTM D5185m>7541101467101VanadiumppmASTM D5185m>8011011011010110110110	Filter Age	hrs	Client Info		0	0	0
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ChromiumpmASTM 0518sm>102<1	Sample Status				ABNORMAL	SEVERE	ABNORMAL
NickelppmASTM D5165m>ToooTitaniumppmASTM D5165m>152<1<1SilverppmASTM D5165m>20<10AluminumppmASTM D5165m>75262<1<1CopperppmASTM D5165m>75A101467TinppmASTM D5165m>75A101467VanadiumppmASTM D5165m>75A101467VanadiumppmASTM D5185m>8101VanadiumppmASTM D5185m>81000VanadiumppmASTM D5185m>400InterveNONENONENONESiliconppmASTM D5185m>40019421118PotassiumppmASTM D5185m>20050104.070SiliconppmASTM D5185m>2004.05014.070ppm WaterppmASTM D5185m>2004.05014.070Silitscalar*VisualNONENONENONENONENONEDebrisscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORHNORHLNORHLNORHLCodorscalar*VisualNORHNORHL21222BoronppmASTM D518	Iron	ppm	ASTM D5185m	>800	6 76	48	123
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SilverppmASTM D5185m>20<1	Nickel	ppm	ASTM D5185m	>5	2	<1	0
AluminumppmASTM D5185m>752626LeadppmASTM D5185m>1010<1CopperppmASTM D5185m>7511014467TinppmASTM D5185m>8101VanadiumppmASTM D5185m>8100White Metalscalar*VisualNONE HEAVY VLITEMODEFYellow Metalscalar*VisualNONE 194 2118PotassiumppmASTM D5185m>4001942118PotassiumppmASTM D5185m>200500Water%ASTM D5185m>200 5 00Water%ASTM D5185m>200 5 00SiliconppmASTM D5185m>200 5 00Water%ASTM D5185m>200 5 00Silitscalar*VisualNONENONENONENONESodu/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORNORMAIXNORMGoduppmASTM D5185m 6 31BoronppmASTM D5185m 6 31BoronppmASTM D5185m 6 <11ManganeseppmASTM D5185m 6 <11 <th>Titanium</th> <th>ppm</th> <th>ASTM D5185m</th> <th>>15</th> <th>2</th> <th><1</th> <th><1</th>	Titanium	ppm	ASTM D5185m	>15	2	<1	<1
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CopperppmASTM D5185m>75I 101467TinppmASTM D5185m>8101VanadiumppmASTM D5185m>8100White Metalscalar*VisualNONE HEAVY VLITEMODEFYellow Metalscalar*VisualNONENONENONENONENONESiliconppmASTM D5185m>4001942118PotassiumppmASTM D5185m>20500Water%ASTM D5185m>200 5 010 A 40700ppm WaterppmASTM D6304>0.2 A 0.5011 A 40700Silitscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONEAppearancescalar*VisualNORENONENONENORMIOdorscalar*VisualNORENORMLNORMLNORMIOdorscalar*VisualNORENORMLNORMINORMIOdorscalar*VisualNORENORMLNORMINORMISodiumppmASTM D5185mC40.2%22222BariumppmASTM D5185mC110MolybdenumppmASTM D5185mC433ManganeseppmASTM D5185mG300624102745<	Aluminum	ppm	ASTM D5185m	>75	26	2	6
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Silicon ppm ASTM D5185m >400 194 21 18 Potassium ppm ASTM D5185m >20 5 0 0 Water % ASTM D6304 >0.2 ▲ 0.501 ▲ 4.07 ppm Water ppm ASTM D6304 >2000 ▲ 5010 ▲ 40700 Silt scalar *Visual NONE NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE NONE NONE Appearance scalar *Visual NORM NORML HAZY NORML Cdor scalar *Visual NORM NORML HAZY NORML Emulsified Water scalar *Visual NORML NORML NORML NORML Boron ppm ASTM D5185m 6 3 1 Boron ppm ASTM D5185m 4 3 3 Molyb	White Metal	scalar	*Visual	NONE	🔺 HEAVY	VLITE	MODER
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Sodium ppm ASTM D5185m 6 3 1 Boron ppm ASTM D5185m 2 22 22 Barium ppm ASTM D5185m <1 <1 0 Molybdenum ppm ASTM D5185m <1 <1 0 Manganese ppm ASTM D5185m 6 <1 1 Magnesium ppm ASTM D5185m 6 <1 1 Magnesium ppm ASTM D5185m 59 22 46 Calcium ppm ASTM D5185m 3006 2410 2745 Phosphorus ppm ASTM D5185m 1000 784 1001 Zinc ppm ASTM D5185m 1247 906 1178 Sulfur ppm ASTM D5185m 5529 2765 9704	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
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Boron ppm ASTM D5185m 2 22 22 Barium ppm ASTM D5185m <1 <1 0 Molybdenum ppm ASTM D5185m 4 3 3 Manganese ppm ASTM D5185m 6 <1 1 Magnesium ppm ASTM D5185m 59 222 46 Calcium ppm ASTM D5185m 3006 2410 2745 Phosphorus ppm ASTM D5185m 1000 784 1001 Zinc ppm ASTM D5185m 1247 906 1178 Sulfur ppm ASTM D5185m 5529 2765 9704	Sodium		ASTM D5185m		6	3	
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Sulfur ppm ASTM D5185m 5529 2765 9704	•						
	Visc @ 40°C	cSt	ASTM D445	195	173	211	171





Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Kemp Quarries - Kemp Stone - Hulbert Sample No. : PCA0085910 17801 Hwy 80 Received : 15 Apr 2024 : 06149731 Lab Number Hulbert, OK Tested : 18 Apr 2024 : 18 Apr 2024 - Don Baldridge US 74441 Unique Number : 10979809 Diagnosed Test Package : MOB 1 (Additional Tests: KF) Contact: Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. hulbert@kempstone.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Т: F: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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