

KEMP QUARRIES / RIVER VALLEY BACKBONE

OHT124 mponen **Rear Left Final Drive**

{not provided} (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is SAE 50 Transmission/Drive Train Oil. Please confirm the oil type and grade, and specify the brand of the oil on your next sample.

WEAR

All component wear rates are normal.

CONTAMINATION

There is no indication of any contamination in the oil.

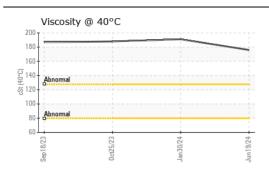
FLUID CONDITION

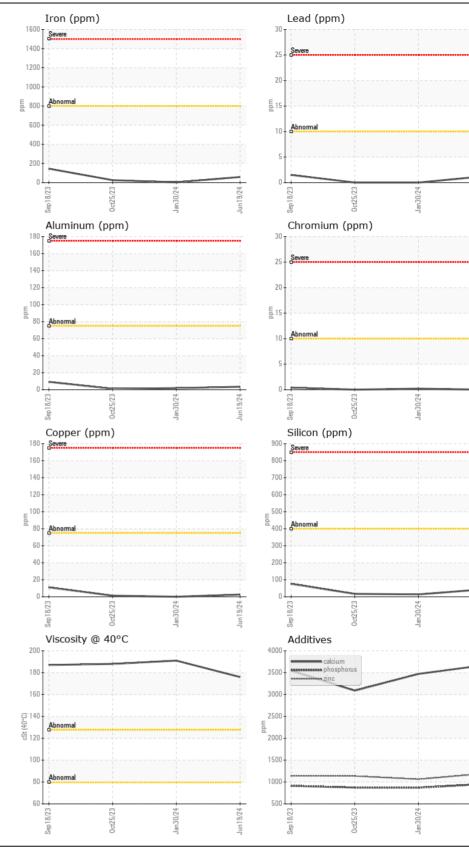
The condition of the oil is acceptable for the time in service.

TestUOMMethodLimitARCurrentHistory1History2Sample NumberClient InfoPCA008488PCA0084788PCA0084788PCA0084788PCA0084788Sample DateClient InfoInfo 201430 Jan 202425 Oct 2023Machine AgehrsClient InfoSp20217Filter AgehrsClient InfoSp200Oil ChangedClient InfoNot ChangedNot ChangedNot ChangedFilter ChangedClient InfoNot ChangedNorRMALNORMALSample StatusClient InfoNot RMALNORMALNORMALIronppmASTM D51858>80058325ChromiumppmASTM D5185>10000NickelppmASTM D5185>10000SilverppmASTM D5185>10100QuandumppmASTM D5185>75300VanadumppmASTM D5185>75300VanadumppmASTM D5185>70100VanadumppmASTM D5185>20A00VanadumppmASTM D5185>753011PotassiumppmASTM D5185>400A00VanadumppmASTM D5185>400A00VanadumppmASTM D5185>400A1 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>							
Sample DateClient InfoIp Jun 202030 Jan 202425 Oct 2023Machine AgehrsClient InfoJ11383054630229Oil AgehrsClient InfoS920217Filter AgehrsClient InfoS92000Oil ChangedIce InfoNo ChangedNot ChangedNot ChangedFilter ChangedIce InfoNot NANAANAASample StatusClient InfoNoNoRMALNORMALIronppmASTM D5185>800S88325ChromiumppmASTM D5185>50000NickelppmASTM D5185>50000NickelppmASTM D5185>512000SilverppmASTM D5185>753211LeadppmASTM D5185>753011CopperppmASTM D5185>753011Yellow Metalscala"VisualNONENONENONENONESiliconppmASTM D5185>400ASTM ENONENONENONENONESiliconppmASTM D5185>400ASTM ENONENONENONENONESiliconppmASTM D5185>400ASTM ENONENONENONENONESiliconppmASTM D5185>400ICHTNONENONE	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine AgehrsClient InfoImageS11383054630229Oil AgehrsClient Info5920217Filter AgehrsClient InfoNot ChangedNot ChangedNot ChangedFilter ChangedClient InfoNot ChangedNot ChangedNot ChangedFilter ChangedClient InfoNot ChangedNot ChangedNot ChangedFilter ChangedClient InfoNot ChangedNot ChangedNot ChangedFilter ChangedPpmASTM DS185mS80058325ChromiumppmASTM DS185mS100<10NickelppmASTM DS185mS5000NickelppmASTM DS185mS15200SilverppmASTM DS185mS75321LeadppmASTM DS185mS75301CopperppmASTM DS185mS75301Yellow Metalscalar'VisualNONENONENONENONEYellow Metalscalar'VisualNONENONENONENONENONESiliconppmASTM DS185mscalar'VisualNONENONENONENONEYellow Metalscalar'VisualNONEIMONENONENONENONESiliconppmASTM DS185mscalar'VisualNONENONENONESiliconppmASTM DS1	Sample Number		Client Info		PCA0108486	PCA0084798	PCA0084848
Oil Age Filter AgehrsClient Info5920217Filter AgehrsClient InfoNot ChangdChangedNot ChangdGli ChangedClient InfoNAN/AN/ASample StatusStill DistismS800583.325ChromiumppmASTM DistismS800583.325ChromiumppmASTM Distism5.0000NickelppmASTM Distism5.5000SilverppmASTM Distism5.532.21LeadppmASTM Distism5.732.11LeadppmASTM Distism5.7301TinppmASTM Distism5.8<100VandardiumppmASTM Distism5.8<100VandardiumppmASTM Distism5.8<100Valderscalar"VisualNONENONENONENONESiliconppmASTM Distism5.0120ValdervisualNONEIAGENONENONENONESiliconppmASTM Distism5.0120ValdervisualNONEIAGENONENONENONESiliconppmASTM Distism5.0120SiliconppmASTM Distism5.0IAGENONESolicon	Sample Date		Client Info		19 Jun 2024	30 Jan 2024	25 Oct 2023
Filter AgehrsClient Info000Oil ChangedClient InfoNot ChangdChangedNot ChangdFilter ChangedClient InfoN/AN/AN/ASample StatusSNORMALNORMALNORMALIronppmASTM D5185>80058325ChromiumppmASTM D5185>50000NickelppmASTM D5185>50000NickelppmASTM D5185>50000SilverppmASTM D5185>52000AluminumppmASTM D5185>75321LeadppmASTM D5185>75300CopperppmASTM D5185>75300VanadiumppmASTM D5185>8<100VanadiumppmASTM D5185>20<100Vellow Metalscalar'VisualNONENONENONENONESiliconppmASTM D5185>20<120VaterVC. Method>0.2NEGNONENONENONESiliconppmASTM D5185>20<120VatarvC. Method>0.2NEGNONENONENONESiliconppmASTM D5185>20<120SoliconppmASTM D5185<0NONE<	Machine Age	hrs	Client Info		31138	30546	30229
Oil Changed Filter ChangedClient InfoNot ChangedNot ChangedNot ChangedFilter ChangedClient InfoN/AN/AN/ASample StatusNORMALNORMALNORMALIronppmASTM D5185m>80058325ChromiumppmASTM D5185m>50000NickelppmASTM D5185m>55000NickelppmASTM D5185m>55000SilverppmASTM D5185m>75321LeadppmASTM D5185m>75300CopperppmASTM D5185m>75301TinppmASTM D5185m>75300VanadiumppmASTM D5185m>75300VanadiumppmASTM D5185m>76300Vellow Metalscalar'VisualNONENONENONENONEVellow Metalscalar'VisualNONENONENONENONESiliconppmASTM D5185m>400431417PotassiumppmASTM D5185m>400ASTMNONENONESiliconppmASTM D5185m>400ASTMNONENONESoliconppmASTM D5185m>400ASTMNONENONESoliconppmASTM D5185m>400NONENONENONE </th <th>Oil Age</th> <th>hrs</th> <th>Client Info</th> <th></th> <th>592</th> <th>0</th> <th>217</th>	Oil Age	hrs	Client Info		592	0	217
Filter Changed Sample StatusClient InfoN/AN/AN/ASample StatusClient InfoN/ANORMALNORMALIronppmASTM D5185m>80058325ChromiumppmASTM D5185m>5000NickelppmASTM D5185m>5000NickelppmASTM D5185m>5000SilverppmASTM D5185m>2000AluminumppmASTM D5185m>753211LeadppmASTM D5185m>75301CopperppmASTM D5185m>75301TinppmASTM D5185m>75300VanadiumppmASTM D5185m>75300VanadiumppmASTM D5185m>75300Vellow Metalscalar*VisualNONENONENONENONESiliconppmASTM D5185m>400431417PotassiumppmASTM D5185m>20<120Silitscalar*VisualNONENONENONENONESilitonppmASTM D5185m>20<120Silitonscalar*VisualNONENONENONENONESolitonscalar*VisualNORENONENONENONESoliton	Filter Age	hrs	Client Info		0	0	0
Sample StatusNORMALNORMALNORMALIronppmASTM D5185>80058325ChromiumppmASTM D5185>100<10NickelppmASTM D5185>5000NickelppmASTM D5185>5000SilverppmASTM D5185>2000AluminumppmASTM D5185>2000LeadppmASTM D5185>75301LeadppmASTM D5185>75301CopperppmASTM D5185>75300VanadiumppmASTM D5185>75300VanadiumppmASTM D5185>8<100VanadiumppmASTM D5185>8<100VanadiumppmASTM D5185>400NONENONENONEVellow Metalscalar*VisualNONENONENONENONESiliconppmASTM D5185>400ASTM220VaterVisualNONENONENONENONENONESilitonscalar*VisualNONENONENONENONESilitonscalar*VisualNONENONENONENONESodurscalar*VisualNORENORENORENORESilitscalar*Visual	Oil Changed		Client Info		Not Changd	Changed	Not Changd
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ChromiumppmASTM D5185m>100<1	Sample Status				NORMAL	NORMAL	NORMAL
ChromiumppmASTM D5185m>100<1	Iron	nnm	4STM D5185m	~800	58	з	25
NickelppmASTM D5185m>5000TitaniumppmASTM D5185m>152000SilverppmASTM D5185m>20000AluminumppmASTM D5185m>75321LeadppmASTM D5185m>75301CopperppmASTM D5185m>75301TinppmASTM D5185m>8<100VanadiumppmASTM D5185m>8<100White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONESiliconppmASTM D5185m>400431417PotassiumppmASTM D5185m>20<120WaterVisualNONENONENONENONENONESilitscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMNORMLNORMLNORMLAppearancescalar*VisualNORMNORMLNORMLNORMLGoronppmASTM D5185m<0020BoronppmASTM D5185m<0020BariumppmASTM D5185m<00 </th <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>							
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Copper ppm ASTM D5185m >75 3 0 1 Tin ppm ASTM D5185m >8 <1 0 0 Vanadium ppm ASTM D5185m >8 <1 0 0 White Metal scalar *Visual NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE Silicon ppm ASTM D5185m >400 43 14 17 Potassium ppm ASTM D5185m >20 <1 2 0 Water WC Method >0.2 NEG NEG NORE NORE Debris scalar *Visual NONE NONE NONE NORML NORML Appearance scalar *Visual NORML NORML NORML NORML Goron ppm ASTM D5185m O 0 2 0 Sodium ppm ASTM D5							
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Yellow Metalscalar*VisualNONENONENONENONENONESiliconppmASTM D5185m>400431417PotassiumppmASTM D5185m>20<120WaterWC Method>0.2NEGNEGNEGSilitscalar*VisualNONENONENONENONEDebrisscalar*VisualNONELIGHTNONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLCodorscalar*Visual>0.2NEGNEGNEGSodiumppmASTM D5185m0020BariumppmASTM D5185m00<118ManganeseppmASTM D5185m01318CalciumppmASTM D5185m366334723089PhosphorusppmASTM D5185m118810631136SulfurppmASTM D5185m118810631136				NONE			
SiliconppmASTM D5185m>400431417PotassiumppmASTM D5185m>20<120WaterWC Method>0.2NEGNEGNEGSiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONELIGHTNONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGSodiumppmASTM D5185m002BoronppmASTM D5185m00<					-		
PotassiumppmASTM D5185m>20<1		Scalar	v 150ai	NONL		NONE	NONE
WaterWC Method>0.2NEGNEGNEGSiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONELIGHTNONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGNEGSodiumppmASTM D5185m0020BariumppmASTM D5185m00<11ManganeseppmASTM D5185m00<13089PhosphorusppmASTM D5185m366334723089PhosphorusppmASTM D5185m118810631136SulfurppmASTM D5185m564949804981	Silicon	ppm	ASTM D5185m	>400	43	14	17
Siltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONELIGHTNONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGNEGSodiumppmASTM D5185m0020BoronppmASTM D5185m0020BariumppmASTM D5185m00<11ManganeseppmASTM D5185m10018CalciumppmASTM D5185m366334723089PhosphorusppmASTM D5185m95148700872ZincppmASTM D5185m118810631136SulfurppmASTM D5185m9564949804981	Potassium	ppm	ASTM D5185m	>20	<1	2	0
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Appearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGNEGSodiumppmASTM D5185m002BoronppmASTM D5185m200BariumppmASTM D5185m050MolybdenumppmASTM D5185m00<1ManganeseppmASTM D5185m100MagnesiumppmASTM D5185m013318CalciumppmASTM D5185m366334723089PhosphorusppmASTM D5185m951870872ZincppmASTM D5185m118810631136SulfurppmASTM D5185m498149814981	Debris	scalar	*Visual	NONE	LIGHT	NONE	NONE
Odorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGNEGSodiumppmASTM D5185m002BoronppmASTM D5185m0200BariumppmASTM D5185m050MolybdenumppmASTM D5185m00<1ManganeseppmASTM D5185m100MagnesiumppmASTM D5185m01318CalciumppmASTM D5185m366334723089PhosphorusppmASTM D5185m951870872ZincppmASTM D5185m118810631136SulfurppmASTM D5185m498149814981	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Emulsified Water scalar *Visual >0.2 NEG NEG NEG Sodium ppm ASTM D5185m 0 0 2 Boron ppm ASTM D5185m 2 0 0 Barium ppm ASTM D5185m 0 5 0 Molybdenum ppm ASTM D5185m 0 0 <1 Manganese ppm ASTM D5185m 1 0 0 Magnesium ppm ASTM D5185m 0 13 18 Calcium ppm ASTM D5185m 3663 3472 3089 Phosphorus ppm ASTM D5185m 1188 1063 1136 Zinc ppm ASTM D5185m 1188 1063 1136 Sulfur ppm ASTM D5185m 4980 4981	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Sodium ppm ASTM D5185m 0 0 2 Boron ppm ASTM D5185m 2 0 0 Barium ppm ASTM D5185m 0 5 0 Barium ppm ASTM D5185m 0 5 0 Molybdenum ppm ASTM D5185m 0 <1 0 <1 Manganese ppm ASTM D5185m 1 0 0 <1 Magnesium ppm ASTM D5185m 3663 3472 3089 Phosphorus ppm ASTM D5185m 951 870 872 Zinc ppm ASTM D5185m 1188 1063 1136 Sulfur ppm ASTM D5185m 4980 4981	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Boron ppm ASTM D5185m 2 0 0 Barium ppm ASTM D5185m 0 5 0 Molybdenum ppm ASTM D5185m 0 Manganese ppm ASTM D5185m 1 0 <1 Magnesium ppm ASTM D5185m 0 13 18 Calcium ppm ASTM D5185m 3663 3472 3089 Phosphorus ppm ASTM D5185m 951 870 872 Zinc ppm ASTM D5185m 1188 1063 1136 Sulfur ppm ASTM D5185m 95649 4980 4981	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Boron ppm ASTM D5185m 2 0 0 Barium ppm ASTM D5185m 0 5 0 Molybdenum ppm ASTM D5185m 0 0 <1 Manganese ppm ASTM D5185m 1 0 0 <1 Magnesium ppm ASTM D5185m 0 13 18 Calcium ppm ASTM D5185m 0 3472 3089 Phosphorus ppm ASTM D5185m 951 870 872 Zinc ppm ASTM D5185m 1188 1063 1136 Sulfur ppm ASTM D5185m 4980 4981	Sodium	ppm	ASTM D5185m		0	0	2
Barium ppm ASTM D5185m 0 5 0 Molybdenum ppm ASTM D5185m 0 0 <1 Manganese ppm ASTM D5185m 1 0 0 Magnesium ppm ASTM D5185m 0 13 18 Calcium ppm ASTM D5185m 3663 3472 3089 Phosphorus ppm ASTM D5185m 951 870 872 Zinc ppm ASTM D5185m 1188 1063 1136 Sulfur ppm ASTM D5185m 4980 4981			ASTM D5185m		2	0	0
Manganese ppm ASTM D5185m 1 0 0 Magnesium ppm ASTM D5185m 0 13 18 Calcium ppm ASTM D5185m 3663 3472 3089 Phosphorus ppm ASTM D5185m 951 870 872 Zinc ppm ASTM D5185m 1188 1063 1136 Sulfur ppm ASTM D5185m 5649 4980 4981	Barium		ASTM D5185m		0	5	0
Manganese ppm ASTM D5185m 1 0 0 Magnesium ppm ASTM D5185m 0 13 18 Calcium ppm ASTM D5185m 3663 3472 3089 Phosphorus ppm ASTM D5185m 951 870 872 Zinc ppm ASTM D5185m 1188 1063 1136 Sulfur ppm ASTM D5185m 5649 4980 4981	Molybdenum	ppm	ASTM D5185m		0	0	<1
Magnesium ppm ASTM D5185m 0 13 18 Calcium ppm ASTM D5185m 3663 3472 3089 Phosphorus ppm ASTM D5185m 951 870 872 Zinc ppm ASTM D5185m 1188 1063 1136 Sulfur ppm ASTM D5185m 5649 4980 4981	Manganese				1		0
Calcium ppm ASTM D5185m 3663 3472 3089 Phosphorus ppm ASTM D5185m 951 870 872 Zinc ppm ASTM D5185m 1188 1063 1136 Sulfur ppm ASTM D5185m 5649 4980 4981			ASTM D5185m		0	13	18
Zinc ppm ASTM D5185m 1188 1063 1136 Sulfur ppm ASTM D5185m 5649 4980 4981			ASTM D5185m		3663	3472	3089
Zinc ppm ASTM D5185m 1188 1063 1136 Sulfur ppm ASTM D5185m 5649 4980 4981						870	872
Sulfur ppm ASTM D5185m 5649 4980 4981			ASTM D5185m		1188	1063	1136
	Sulfur		ASTM D5185m		5649	4980	4981

NORMAL WEAR CONTAMINATION NORMAL FLUID CONDITION

NORMAL





Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : PCA0108486 řĒ Lab Number : 06224119 Unique Number : 11102316 Test Package : MOB 1 Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

Received

Diagnosed

Tested

: 28 Jun 2024

: 01 Jul 2024

Kemp Quarries - River Valley - Backbone 5600 S Hwy 253 Huntington, AR : 01 Jul 2024 - Wes Davis US 72940 Contact: backbone@rivervalleyquarries.com Т: F:

Jun 19/24