

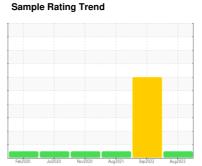
OIL ANALYSIS REPORT



KEMP QUARRIES / BCS - GRAVETTE [64905] **OhT106**

Component Transmission (Auto)

MOBIL MOBILTRANS HD 30 (





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: PM-1 changed filters)

All component wear rates are normal.

Contamination

There is no indication of any contamination in the fluid.

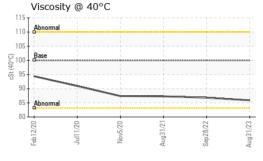
Fluid Condition

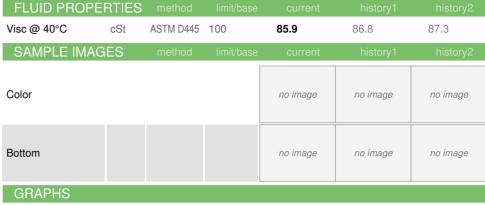
The condition of the fluid is acceptable for the time

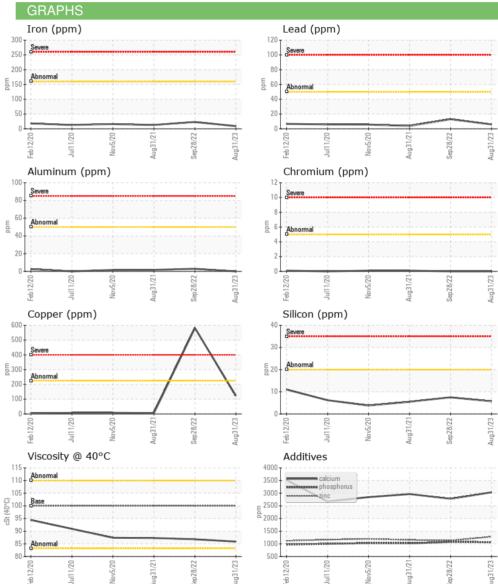
Sample Date Client Info 31 Aug 2023 28 Sep 2022 31 Aug 2021 Machine Age hrs Client Info 21971 21476 21083 210	HD 30 (GAL)		Feb 2020	Jul2020 Nov2020	Aug2021 Sep2022	Aug2023	
Sample Date	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 21971 21476 21083 Dil Age hrs Client Info 495 21476 653 Dil Changed Client Info N/A Changed Changed Sample Status NORMAL SEVERE NORMAL WEAR METALS Iron ppm ASTM D5185m >160 9 23 13 Chromium ppm ASTM D5185m >5 0 0 <1	Sample Number		Client Info		PCA0086477	PCA0062334	PCA0049340
Dil Age	Sample Date		Client Info		31 Aug 2023	28 Sep 2022	31 Aug 2021
Dil Changed Client Info N/A Changed Changed NORMAL SEVERE NORMAL	Machine Age	hrs	Client Info		21971	21476	21083
NORMAL SEVERE NORMAL NORMAL SEVERE NORMAL	Oil Age	hrs	Client Info		495	21476	653
WEAR METALS	Oil Changed		Client Info		N/A	Changed	Changed
Chromium	Sample Status				NORMAL	SEVERE	NORMAL
Chromium ppm ASTM D5185m >5 0 0 <1 Nickel ppm ASTM D5185m >5 0 0 0 Titlanium ppm ASTM D5185m >5 0 0 <1	WEAR METAL	.S	method	limit/base	current	history1	history2
Nickel ppm ASTM D5185m >5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Iron	ppm	ASTM D5185m	>160	9	23	13
Silver	Chromium	ppm	ASTM D5185m	>5	0	0	<1
Silver	Nickel	ppm	ASTM D5185m	>5	0	0	0
Aluminum	Titanium	ppm	ASTM D5185m		<1	<1	<1
Lead ppm ASTM D5185m >50 6 13 4 Copper ppm ASTM D5185m >225 123 582 6 Tin ppm ASTM D5185m >10 <1	Silver	ppm	ASTM D5185m	>5	0	0	<1
Copper	Aluminum	ppm	ASTM D5185m	>50	0	3	2
Antimony	Lead	ppm	ASTM D5185m	>50	6	13	4
Antimony	Copper	ppm	ASTM D5185m	>225	123	582	6
Vanadium ppm ASTM D5185m 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 5 7 13 Barium ppm ASTM D5185m 0 0 0 Molybdenum ppm ASTM D5185m 6 19 6 Marganese ppm ASTM D5185m 103 59 97 Calcium ppm ASTM D5185m 1063 1077 1020 Phosphorus ppm ASTM D5185m 1063 1077 1020 Zinc ppm ASTM D5185m 1283 1131 1156 Sulfur ppm ASTM D5185m 5154 7012 4694 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 6 8	Tin	ppm	ASTM D5185m	>10	<1	<1	<1
Description	Antimony	ppm	ASTM D5185m				0
ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 5 7 13 Barium ppm ASTM D5185m 0 0 0 Molybdenum ppm ASTM D5185m 6 19 6 Magnesium ppm ASTM D5185m 103 59 97 Calcium ppm ASTM D5185m 103 59 97 Calcium ppm ASTM D5185m 1063 1077 1020 Zinc ppm ASTM D5185m 1283 1131 1156 Sulfur ppm ASTM D5185m 5154 7012 4694 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 6 8 6 Sodium ppm ASTM D5185m >20 <1	Vanadium	ppm	ASTM D5185m		0	0	0
Boron ppm ASTM D5185m D	Cadmium	ppm	ASTM D5185m		0	0	0
Barium	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 6 19 6 Manganese ppm ASTM D5185m <1	Boron	ppm	ASTM D5185m		5	7	13
Manganese ppm ASTM D5185m <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 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <td>Barium</td> <td>ppm</td> <td>ASTM D5185m</td> <td></td> <th>0</th> <td>0</td> <td>0</td>	Barium	ppm	ASTM D5185m		0	0	0
Magnesium ppm ASTM D5185m 103 59 97 Calcium ppm ASTM D5185m 3035 2778 2966 Phosphorus ppm ASTM D5185m 1063 1077 1020 Zinc ppm ASTM D5185m 1283 1131 1156 Sulfur ppm ASTM D5185m 5154 7012 4694 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m 20 6 8 6 Sodium ppm ASTM D5185m 20 <1	Molybdenum	ppm	ASTM D5185m		6	19	6
Calcium ppm ASTM D5185m 3035 2778 2966 Phosphorus ppm ASTM D5185m 1063 1077 1020 Zinc ppm ASTM D5185m 1283 1131 1156 Sulfur ppm ASTM D5185m 5154 7012 4694 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 6 8 6 Sodium ppm ASTM D5185m >20 <1	Manganese	ppm	ASTM D5185m		<1	<1	<1
Phosphorus ppm ASTM D5185m 1063 1077 1020 Zinc ppm ASTM D5185m 1283 1131 1156 Sulfur ppm ASTM D5185m 5154 7012 4694 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 6 8 6 Sodium ppm ASTM D5185m >20 <1	Magnesium	ppm	ASTM D5185m		103	59	97
Transport Tran	Calcium	ppm	ASTM D5185m		3035	2778	2966
Sulfur ppm ASTM D5185m 5154 7012 4694 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 6 8 6 Sodium ppm ASTM D5185m >20 <1	Phosphorus	ppm	ASTM D5185m		1063	1077	1020
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 6 8 6 Sodium ppm ASTM D5185m 1 0 2 Potassium ppm ASTM D5185m 20 <1 2 0 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Dodor scalar *Visual NORML NORML NORML NORML Emulsified Water scalar *Visual >0.1 NEG NEG	Zinc	ppm	ASTM D5185m		1283	1131	1156
Silicon	Sulfur	ppm	ASTM D5185m		5154	7012	4694
Sodium	CONTAMINAN	ITS	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 <1 2 0 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE LIGHT Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML Emulsified Water scalar *Visual >0.1 NEG NEG	Silicon	ppm	ASTM D5185m	>20	6	8	
White Metal scalar *Visual NONE NONE NONE NONE NONE NONE NONE NON	Sodium	ppm	ASTM D5185m		1	0	2
White Metal scalar *Visual NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE NONE LIGHT Sand/Dirt scalar *Visual NONE NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML Emulsified Water scalar *Visual >0.1 NEG NEG NEG	Potassium	ppm	ASTM D5185m	>20	<1	2	0
Yellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONELIGHTSand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGNEG	VISUAL		method	limit/base	current	history1	history2
Precipitate scalar *Visual NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE LIGHT Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML Emulsified Water scalar *Visual >0.1 NEG NEG	White Metal	scalar					
Silt scalar *Visual NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE LIGHT Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML Emulsified Water scalar *Visual >0.1 NEG NEG	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Debris scalar *Visual NONE NONE NONE LIGHT Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML Emulsified Water scalar *Visual >0.1 NEG NEG	Precipitate	scalar					
Sand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEG	Silt	scalar	*Visual		NONE	NONE	NONE
Appearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGNEG	Debris	scalar	*Visual				
Odor scalar *Visual NORML NORML NORML NORML NORML NORML Emulsified Water scalar *Visual >0.1 NEG NEG	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Emulsified Water scalar *Visual >0.1 NEG NEG NEG	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Free Water scalar *Visual NEG NEG NEG	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
	Free Water	scalar	*Visual		NEG	NEG	NEG



OIL ANALYSIS REPORT









Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: 05948372

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: PCA0086477 : 10644331 Test Package : MOB 1

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received

> Diagnosed Diagnostician

: 12 Sep 2023 : 14 Sep 2023 : Don Baldridge Kemp Quarries - Benton County Stone - Gravette

15100 N Hwy 59 Sulphur Springs, AR US 72768

Contact:

T:

F:

gravette@bentoncountystone.com

* - 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)