

OIL ANALYSIS REPORT

NORMAL

Sample Rating Trend



46.94L [COLORADO^443^EG - LOADER] Rear Differential





MOBIL MOBILTRANS HD 30 (--- 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.

Sample Number Sample Date Machine Age Oil Age Oil Changed Sample Status	hrs hrs	Client Info Client Info Client Info Client Info Client Info		WC0883956 20 Mar 2024 4776 0 Changed NORMAL	WC0823054 27 Sep 2023 4252 0 Not Changd ABNORMAL	WC0672424 02 Jun 2022 7087 7087 Not Changd NORMAL
CONTAMINATION Water	N	method WC Method	limit/base	current NEG	history1 NEG	history2 NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	168	9 24	203
Chromium	ppm	ASTM D5185m	>3	<1	2	1
Nickel	ppm	ASTM D5185m	>3	0	0	0
Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	<1	0	<1
Aluminum	ppm	ASTM D5185m	>30	2	6	3
Lead	ppm	ASTM D5185m	>13	0	<1	<1
Copper	ppm	ASTM D5185m	>103	4	19	19
Tin	ppm	ASTM D5185m	>5	0	0	<1
Antimony	ppm	ASTM D5185m	>5			
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	<1	39
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		<1	<1	<1
Manganese	ppm	ASTM D5185m		2	10	3
		ASTM D5185m		11	10	10
Magnesium	ppm				10	10
Magnesium Calcium	ppm ppm	ASTM D5185m		3111	3275	3027
Magnesium Calcium Phosphorus	ppm ppm ppm	ASTM D5185m ASTM D5185m		3111 1038	3275 869	3027 1057
Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		3111 1038 1180	3275 869 1018	3027 1057 1228
Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		3111 1038 1180 6914	3275 869 1018 3533	3027 1057 1228 4935
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method	limit/base	3111 1038 1180 6914 current	3275 869 1018 3533 history1	3027 1057 1228 4935 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	limit/base >100	3111 1038 1180 6914 current 10	3275 869 1018 3533 history1 29	3027 1057 1228 4935 history2 12
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	limit/base	3111 1038 1180 6914 current 10 <1	3275 869 1018 3533 history1 29 13	3027 1057 1228 4935 history2 12 3
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >100 >20	3111 1038 1180 6914 current 10 <1 2	3275 869 1018 3533 history1 29 13 0	3027 1057 1228 4935 history2 12 3 0
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >100 >20 limit/base	3111 1038 1180 6914 current 10 <1 2 current	3275 869 1018 3533 history1 29 13 0 history1	3027 1057 1228 4935 history2 12 3 0 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m XSTM D5185m XSTM D5185m	limit/base >100 >20 limit/base NONE	3111 1038 1180 6914 current 10 <1 2 current NONE	3275 869 1018 3533 history1 29 13 0 history1 NONE	3027 1057 1228 4935 history2 12 3 0 history2 NONE
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal	ppm ppm ppm ppm ppm ppm ppm ppm scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m XSTM D5185m STM D5185m XSTM D5185m	limit/base >100 >20 limit/base NONE NONE	3111 1038 1180 6914 current 10 <1 2 current NONE NONE	3275 869 1018 3533 history1 29 13 0 history1 NONE NONE	3027 1057 1228 4935 history2 12 3 0 history2 NONE NONE
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate	ppm ppm ppm ppm ppm ppm ppm ppm scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual	limit/base >100 >20 limit/base NONE NONE NONE	3111 1038 1180 6914 current 10 <1 2 current NONE NONE NONE	3275 869 1018 3533 history1 29 13 0 history1 NONE NONE NONE NONE	3027 1057 1228 4935 history2 12 3 0 history2 NONE NONE NONE NONE
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL VISUAL Vhite Metal Yellow Metal Precipitate Silt	ppm ppm ppm ppm ppm ppm ppm ppm ppm scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual	limit/base >100 >20 limit/base NONE NONE NONE NONE NONE	3111 1038 1180 6914 current 10 <1 2 current NONE NONE NONE NONE NONE	3275 869 1018 3533 history1 29 13 0 history1 NONE NONE NONE NONE NONE	3027 1057 1228 4935 history2 12 3 0 history2 NONE NONE NONE NONE NONE NONE
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL VISUAL Vhite Metal Yellow Metal Precipitate Silt Debris	ppm ppm ppm ppm ppm ppm ppm ppm ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual	limit/base >100 >20 limit/base NONE NONE NONE NONE NONE	3111 1038 1180 6914 current 10 <1 2 current NONE NONE NONE NONE NONE NONE	3275 869 1018 3533 history1 29 13 0 history1 NONE NONE NONE NONE NONE NONE NONE	3027 1057 1228 4935 history2 12 3 0 history2 NONE NONE NONE NONE NONE NONE NONE
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL VISUAL Vhite Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	ppm ppm ppm ppm ppm ppm ppm ppm ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m XSTM D	limit/base >100 >20 limit/base NONE NONE NONE NONE NONE NONE NONE	3111 1038 1180 6914 current 10 <1 2 current NONE NONE NONE NONE NONE NONE NONE	3275 869 1018 3533 history1 29 13 0 history1 NONE NONE NONE NONE NONE NONE NONE NON	3027 1057 1228 4935 history2 12 3 0 history2 NONE
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Sodium Potassium VISUAL White Metal Yellow Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	ppm ppm ppm ppm ppm ppm ppm ppm ppm scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	limit/base >100 >20 limit/base NONE NONE NONE NONE NONE NONE NONE NON	3111 1038 1180 6914 current 10 <1 2 current NONE NONE NONE NONE NONE NONE NONE NON	3275 869 1018 3533 history1 29 13 0 history1 NONE NONE NONE NONE NONE NONE NONE NON	3027 1057 1228 4935 history2 12 3 0 history2 NONE NORML
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS CONTAMINANTS Sodium Potassium VISUAL VISUAL Vhite Metal Yellow Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor	ppm ppm ppm ppm ppm ppm ppm ppm scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	limit/base >100 >20 limit/base NONE NONE NONE NONE NONE NONE NONE NON	3111 1038 1180 6914 current 10 <1 2 current NONE NONE NONE NONE NONE NONE NONE NON	3275 869 1018 3533 history1 29 13 0 history1 NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE	3027 1057 1228 4935 history2 12 3 0 history2 NONE NORML
MagnesiumCalciumPhosphorusZincSulfurCONTAMINANTSSodiumPotassiumVISUALWhite MetalYellow MetalPrecipitateSiltDebrisSand/DirtAppearanceOdorEmulsified Water	ppm ppm ppm ppm ppm ppm ppm ppm scalar scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m XVisual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	limit/base >100 >20 limit/base NONE NONE NONE NONE NONE NONE NONE NON	3111 1038 1180 6914 current 10 <1 2 current NONE NONE NONE NONE NONE NONE NONE NON	3275 869 1018 3533 history1 29 13 0 history1 NONE NORML NORML NEG	3027 1057 1228 4935 history2 12 3 0 history2 NONE NORML NEG



OIL ANALYSIS REPORT



Visc @ 40°C cSt ASTM D445	100			
	100	98.4	87.1	101
SAMPLE IMAGES method	limit/base	current	history1	history2
Color		no image	no image	no image
Bottom		no image	no image	no image



SHERWOOD CONSTRUCTION CO INC Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : WC0883956 Received 3219 WEST MAY ST : 08 Apr 2024 Lab Number : 06142569 Tested : 09 Apr 2024 WICHITA, KS Unique Number : 10967377 : 09 Apr 2024 - Wes Davis US 67213 Diagnosed Test Package : CONST Contact: DOUG KING Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. doug.king@sherwood.net * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (316)617-3161 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: x:

Submitted By: BRANDEN JAQUIAS Page 2 of 2