

OIL ANALYSIS REPORT

Sample Rating Trend



FT2951 Component **Hydraulic System** MOBIL DTE 24 (50 GAL)

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0865389	WC0767612	WC0651807
Sample Date		Client Info		16 Jan 2024	18 Jan 2023	03 Jan 2022
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	N	method	limit/base	current	history1	history2
Water		WC Method	>0.05	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	historv1	history2
			00	•	5	0
Iron Observations	ppm	ASTM D5185m	>20	2	5	0
Chromium	ppm		>20	0	0	<1
NICKEI	ppm		>20	U	0	0
O'llas	ppm			<1	0	0
Sliver	ppm	ASTM D5185m	00	0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	0	2
Lead	ppm	ASTM D5185m	>20	0	<1	<1
Copper	ppm	ASTM D5185m	>20	13	16	1/
Tin	ppm	ASTM D5185m	>20	<1	0	<1
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	<1	<1
ADDITIVES		method	limit/base	current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185m	limit/base	current 0	history1 0	history2 <1
ADDITIVES Boron Barium	ppm ppm	method ASTM D5185m ASTM D5185m	limit/base	current 0 0	history1 0 0	history2 <1 1
ADDITIVES Boron Barium Molybdenum	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current 0 0 0	history1 0 0 0	history2 <1 1 0
ADDITIVES Boron Barium Molybdenum Manganese	ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current 0 0 0 <1	history1 0 0 0 0	history2 <1 1 0 <1
ADDITIVES Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current 0 0 0 <1 6	history1 0 0 0 0 10	history2 <1 1 0 <1 <1
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current 0 0 0 0 0 79	history1 0 0 0 0 10 90	history2 <1 1 0 <1 <1 <1 100
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current 0 0 0 0 79 389	history1 0 0 0 0 10 90 401	history2 <1 1 0 <1 <1 100 445
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current 0 0 0 - 6 79 389 493	history1 0 0 0 0 10 90 401 557	history2 <1 1 0 <1 <1 100 445 636
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	limit/base	current 0 0 0	history1 0 0 0 0 10 90 401 557 4346	history2 <1 1 0 <1 <1 100 445 636 5109
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	limit/base	current 0 0 0 1 6 79 389 493 3602 current	history1 0 0 0 10 90 401 557 4346 history1	history2 <1 1 0 <1 <1 100 445 636 5109 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	limit/base	current 0 0 0 - 6 79 389 493 3602 current <1	history1 0 0 0 0 0 10 90 401 557 4346 history1 <1	<1 1 0 <1 1 0 <1 636 5109 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	limit/base	current 0 0 0 - 6 79 389 493 3602 current <1 3	history1 0 0 0 0 0 10 90 401 557 4346 history1 <1 0	<1 1 0 <1 1 <1 636 5109 history2 1 0
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	limit/base	current 0 0 0 0 <1 6 79 389 493 3602 current <1 3 0	history1 0 0 0 0 0 10 90 401 557 4346 history1 <1 0 2	<1 1 0 <1 1 0 <1 636 5109 history2 1 0 11 0 1 100
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	limit/base	current 0 0 0 - 6 79 389 493 3602 current <1 3 0 current 3 0	history1 0 0 0 0 10 90 401 557 4346 history1 <1 0 2 history1	<1 1 0 <1 1 <1 <10 445 636 5109 history2 1 0 10 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	limit/base 	current 0 0 0 0 <1 6 79 389 493 3602 current <1 3 0 current 3998	history1 0 0 0 0 0 90 401 557 4346 history1 <1 0 2 history1 2501	<1 1 0 <1 1 <1 636 5109 history2 1 0 11 0 1 0 10 history2 837
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >6µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	limit/base	current 0 0 0 0 <1 6 79 389 493 3602 current <1 3 0 current 3998 1129	history1 0 0 0 0 10 90 401 557 4346 history1 <1 0 2 history1 2501 874	<1 1 0 <1 1 <1 636 5109 history2 1 0 100 history2 1 0 10 history2 837 221
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	limit/base Imit/base Imit/base >15 >20 Imit/base >5000 >1300 >160	current 0 0 0 - 6 79 389 493 3602 current <1 3 0 current 3998 1129 44	history1 0 0 0 0 10 90 401 557 4346 history1 <1 0 2 history1 2501 874 81	<1 1 0 <1 1 0 <1 5109 history2 1 0 10 history2 1 0 10 history2 837 221 21
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	limit/base	current 0 0 0 <1 6 79 389 493 3602 current <1 3 0 current 3998 1129 44 6	history1 0 0 0 0 10 90 401 557 4346 history1 <1 0 2 history1 2501 874 81 18	<1 1 0 <1 100 445 636 5109 history2 1 0 10 history2 1 0 10 history2 837 221 21 5
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >4µm Particles >14µm Particles >38µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m	limit/base limit/base >15 >20 limit/base >5000 >1300 >160 >40 >10	current 0 0 0 - 6 79 389 493 3602 current <1 3 0 current 3998 1129 44 6 0	history1 0 0 0 0 10 90 401 557 4346 history1 <1 0 2 history1 2501 874 81 18 1	<1 1 0 <1 1 <1 <10 445 636 5109 history2 1 0 10 history2 1 0 10 history2 837 221 21 5 0
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >4µm Particles >14µm Particles >38µm Particles >71µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	limit/base	current 0 0 0 <1 6 79 389 493 3602 current <1 3 0 current 3998 1129 44 6 0 0	history1 0 0 0 0 10 90 401 557 4346 history1 <1 0 2 history1 2501 874 81 18 1 0	<1 1 0 <1 1 <1 <10 445 636 5109 history2 1 0 10 history2 21 5 0 0 00



OIL ANALYSIS REPORT







FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.92	0.92	0.745
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
Debris	scalar	*Visual	NONE	NONE	LIGHT	NONE
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	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	31.5	32.5	32.9	33.2
SAMPLE IMAGES		method	limit/base	current	history1	history2



Bottom







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

* - 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)

Certificate L2367

Laboratory

Sample No.

Lab Number

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