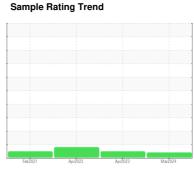


OIL ANALYSIS REPORT

TEST CELL D20

Component **Hydraulic System**

MOBIL DTE 25 (--- GAL)





Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Wear

All component wear rates are normal.

Contamination

There is a light amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

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

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0841241	WC0690134	WC0553156
Sample Date		Client Info		25 Mar 2024	11 Apr 2023	05 Apr 2022
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ATTENTION	NORMAL	ABNORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.05	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	6	8	9
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	<1	1	2
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	0	0
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm		>20	2	2	2
Tin	ppm	ASTM D5185m	>20	0	0	0
Antimony	ppm	ASTM D5185m				
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		0	0	<1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	<1
Manganese						
Magnesium	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm ppm	ASTM D5185m ASTM D5185m		0 <1	0 <1	<1 0
Calcium				-		
-	ppm	ASTM D5185m		<1	<1	0
Calcium	ppm	ASTM D5185m ASTM D5185m		<1 84	<1 87	0 97
Calcium Phosphorus	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		<1 84 376	<1 87 381	0 97 450
Calcium Phosphorus Zinc	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	<1 84 376 544	<1 87 381 570	0 97 450 564
Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		<1 84 376 544 4907	<1 87 381 570 5197	0 97 450 564 4727
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method		<1 84 376 544 4907	<1 87 381 570 5197 history1 5	0 97 450 564 4727 history2
Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m		<1 84 376 544 4907 current	<1 87 381 570 5197 history1	0 97 450 564 4727 history2
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	>15 >20 limit/base	<1 84 376 544 4907 current 3	<1 87 381 570 5197 history1 5	0 97 450 564 4727 history2 5
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m MSTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>15 >20	<1 84 376 544 4907 current 3 1	<1 87 381 570 5197 history1 5 0 <1	0 97 450 564 4727 history2 5 <1
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm ppm ppm ppm ppm	ASTM D5185m	>15 >20 limit/base >640	<1 84 376 544 4907 current 3 1 0	<1 87 381 570 5197 history1 5 0 <1	0 97 450 564 4727 history2 5 <1 0 history2 ▲ 1808
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm	ppm ppm ppm ppm ppm ppm	ASTM D5185m	>15 >20 limit/base >640	<1 84 376 544 4907 current 3 1 0 current 453 128 19	<1 87 381 570 5197 history1 5 0 <1 history1 201 67 13	0 97 450 564 4727 history2 5 <1 0 history2 ▲ 1808 192 14
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m	>15 >20 limit/base >640 >160 >20	<1 84 376 544 4907 current 3 1 0 current 453 128	<1 87 381 570 5197 history1 5 0 <1 history1 201 67	0 97 450 564 4727 history2 5 <1 0 history2 ▲ 1808 ● 192 14
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>15 >20 limit/base >640 >160 >20 >4 >3	<1 84 376 544 4907 current 3 1 0 current 453 128 19 8 1	<1 87 381 570 5197 history1 5 0 <1 history1 201 67 13	0 97 450 564 4727 history2 5 <1 0 history2 ▲ 1808 192 14 4 0
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647	>15 >20 limit/base >640 >160 >20 >4 >3	<1 84 376 544 4907 current 3 1 0 current 453 128 19 8	<1 87 381 570 5197 history1 5 0 <1 history1 201 67 13	0 97 450 564 4727 history2 5 <1 0 history2 ▲ 1808 ● 192 14



OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No.

Lab Number : 06133986 Unique Number: 10953451 Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0841241

Received **Tested**

Diagnosed

: 01 Apr 2024 : 01 Apr 2024 - Wes Davis

: 29 Mar 2024

515 Michelin Road Greenville, SC US 29605 Contact: Vince Wilson

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

vince.wilson@michelin.com T: (864)422-3913

* - 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) F: (864)422-3518

Michelin Americas Research Company