## **OIL ANALYSIS REPORT**

Sample Number

hrs

hrs

Sample Date

Machine Age

Oil Changed

Sample Status

CONTAMINATION

Oil Age

### [187637-N2STV4W] **BT 5165 VHP2** Component

**Pump Hydraulic System** MOBIL DTE 25 (15 GAL)

#### DIAGNOSIS

#### Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

#### A Wear

The iron level is abnormal. All other component wear rates are normal.

#### Contamination

There is a high amount of particulates present in the oil.

#### Fluid Condition

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

#### Particle Filter (Magn: 200 x)



SAMPLE INFORMATION method limit/base current history1 history2 Client Info PH06131397 PH06034128 PH05938843 Client Info 11 Mar 2024 12 Dec 2023 27 Jul 2023 0 0 **Client Info** 0 Client Info 0 0 0 **Client Info** N/A N/A N/A ABNORMAL ABNORMAL ATTENTION method limit/base current history1 history2 0.05 .

WEAR

Water		WC Method	>0.05	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<b>4</b> 9	<b>5</b> 2	<b>4</b> 35
Chromium	ppm	ASTM D5185m	>20	<1	0	0
Nickel	ppm	ASTM D5185m	>20	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>20	2	1	<1
Lead	ppm	ASTM D5185m	>20	<1	0	0
Copper	ppm	ASTM D5185m	>20	1	<1	<1
Tin	ppm	ASTM D5185m	>20	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0

Sample Rating Trend

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	0	0
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		<1	<1	0
Calcium	ppm	ASTM D5185m		123	139	124
Phosphorus	ppm	ASTM D5185m		491	514	490
Zinc	ppm	ASTM D5185m		682	796	666
Sulfur	ppm	ASTM D5185m		6960	8542	7258

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	2	<1	<1
Sodium	ppm	ASTM D5185m		<1	0	3
Potassium	mqq	ASTM D5185m	>20	1	1	0

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>640	<b>1700</b>	905	841
Particles >6µm	ASTM D7647	>160	<u> </u>	▲ 324	270
Particles >14µm	ASTM D7647	>20	<mark>/</mark> 94	42	936
Particles >21µm	ASTM D7647	>4	<mark>人</mark> 21	0 10	9
Particles >38µm	ASTM D7647	>3	2	1	0
Particles >71µm	ASTM D7647	>3	0	0	0
Oil Cleanliness	ISO 4406 (c)	>16/14/11	<b>  18/17/14</b>	▲ 17/16/13	17/15/12
FLUID DEGRADATION	method	limit/base	current	history1	history2

Acid Number (AN)

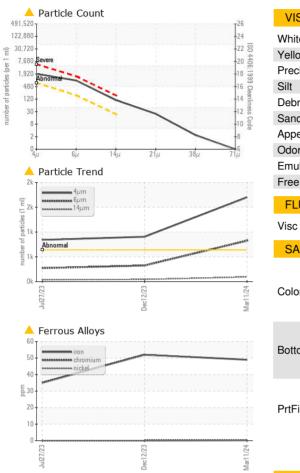
mg KOH/g ASTM D8045

1.54 1.42 1.21

Report Id: MICARL [WUSCAR] 06131397 (Generated: 04/02/2024 10:18:40) Rev: 1

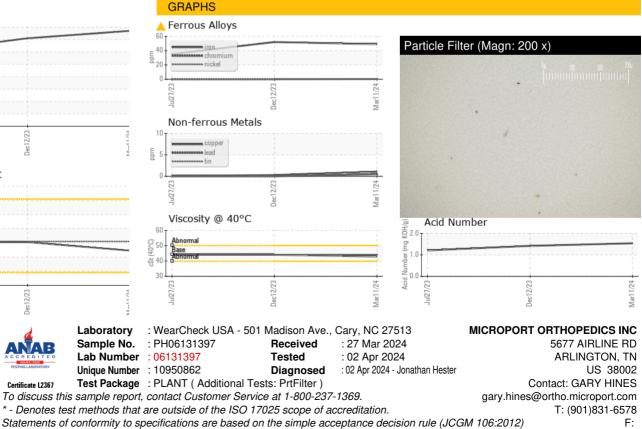
Contact/Location: GARY HINES - MICARL

# **OIL ANALYSIS REPORT**



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	NONE	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	44.2	42.9	44.1	44.1
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color				•		
Bottom						
PrtFilter						

Acid Number 1.4 (B/HOX Bull 1.0 0.8 0.0 0.0 명 0.4 0.2 0.0 ar12/22 lul27 Viscosity @ 40°C 52 Abnorma 50 48 ()-44 ()-44 ()-44 ()-44 42 40 Abnorma 38 Laboratory Sample No. Lab Number : 06131397 Certificate L2367



Contact/Location: GARY HINES - MICARL