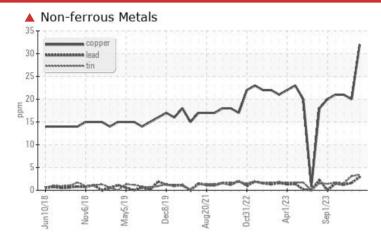


## **PROBLEM SUMMARY**

### Area Machine Id P-6150 (S/N WELL CLEAN UP PUMP) Component Pump Fluid MOBIL DTE OIL EXTRA HEAVY (20 GAL)

#### COMPONENT CONDITION SUMMARY



#### RECOMMENDATION

Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS								
Sample Status				SEVERE	NORMAL	NORMAL		
Copper	ppm	ASTM D5185m	>30	<b>A</b> 32	20	21		

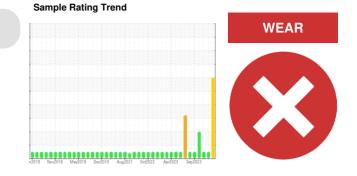
Customer Id: BPENOR Sample No.: HLC0003197 Lab Number: 06146557 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Angela Borella +1 800-237-1369 angela.borella@wearcheckusa.com

*To change component or sample information:* Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u>



#### There are no recommended actions for this sample.

#### HISTORICAL DIAGNOSIS



#### 07 Feb 2024 Diag: Don Baldridge

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the fluid. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.



#### 07 Jan 2024 Diag: Jonathan Hester

Resample at the next service interval to monitor.All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



view report



#### 10 Oct 2023 Diag: Don Baldridge

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





## **OIL ANALYSIS REPORT**

# P-6150 (S/N WELL CLEAN UP PUMP)

Fluid MOBIL DTE OIL EXTRA HEAVY (20 GAL)

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### A Wear

Area

Compone Pump

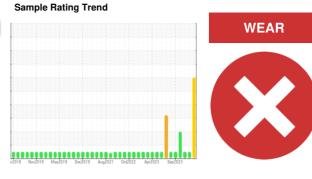
All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the fluid. The amount and size of particulates present in the system are acceptable.

#### Fluid Condition

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

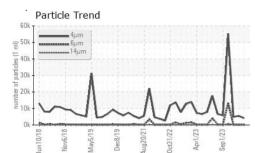


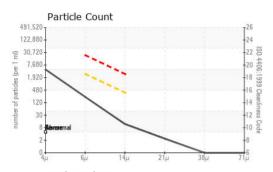
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		HLC0003197	HLC0003008	HLC0003144
Sample Date		Client Info		01 Apr 2024	07 Feb 2024	07 Jan 2024
Machine Age	hrs	Client Info		0	0	2997
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	NORMAL	NORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>.1	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	11	5	7
Chromium	ppm	ASTM D5185m	>5	<1	0	0
Nickel	ppm	ASTM D5185m	>5	2	0	<1
Titanium	ppm	ASTM D5185m	>3	<1	0	0
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>7	5	2	2
Lead	ppm	ASTM D5185m	>12	3	2	1
Copper	ppm	ASTM D5185m	>30	<b>3</b> 2	20	21
Tin	ppm	ASTM D5185m	>9	3	3	2
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		773	622	490
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		143	102	105
Manganese	ppm	ASTM D5185m		1	0	0
Magnesium	ppm	ASTM D5185m		501	375	372
Calcium	ppm	ASTM D5185m		2511	1850	1793
Phosphorus	ppm	ASTM D5185m		1587	1126	1152
Zinc	ppm	ASTM D5185m		1720	1316	1356
Sulfur	ppm	ASTM D5185m		5797	3800	3910
CONTAMINANTS	\$	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>60	7	4	5
Sodium	ppm	ASTM D5185m		15	9	9
Potassium	ppm	ASTM D5185m	>20	5	1	<1
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		4167	5493	4931
Particles >6µm		ASTM D7647	>2500	201	162	251
Particles >14µm		ASTM D7647	>320	10	7	16
Particles >21µm		ASTM D7647	>80	2	1	6
Particles >38µm		ASTM D7647	>20	0	0	0
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/18/15	19/15/10	20/15/10	19/15/11
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		1.29	1.14	1.39

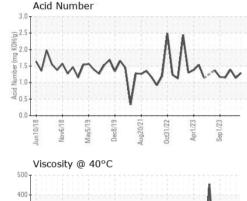
Contact/Location: PERRY NEEL - BPENOR Page 3 of 4

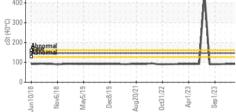


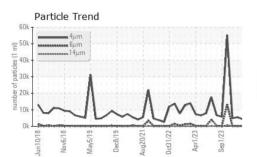
## **OIL ANALYSIS REPORT**



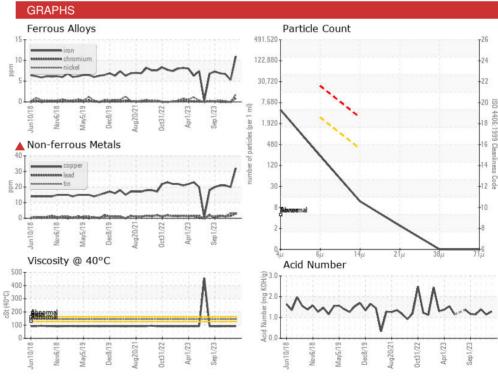








VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.1	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	146	91.8	91.7	91.7
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
Color						
Bottom				. 6.		



: 11 Apr 2024

: 12 Apr 2024

: 15 Apr 2024 - Angela Borella

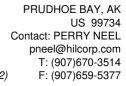
: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Received

Diagnosed

Tested





\* - 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)

Laboratory

Sample No.

Lab Number : 06146557

Unique Number : 10976635

: HLC0003197

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

Test Package : IND 2 (Additional Tests: PrtCount)

Report Id: BPENOR [WUSCAR] 06146557 (Generated: 04/15/2024 18:01:04) Rev: 1

Certificate 12367

Contact/Location: PERRY NEEL - BPENOR

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