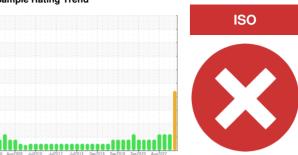


# **PROBLEM SUMMARY**

Sample Rating Trend



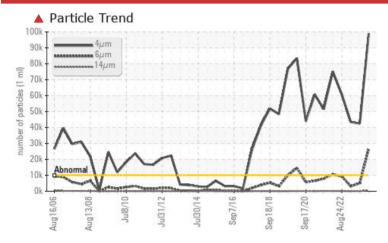
WCR [100000107834]

DIXNGEN2BRGNDE

Non-Drive End Bearing

**MOBIL DTE OIL HVY MEDIUM (25 LTR)** 

## COMPONENT CONDITION SUMMARY



## **RECOMMENDATION**

We advise that you check all areas where contaminants can enter the system. The oil change at the time of sampling has been noted. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation.

PROBLEMATIC TEST RESULTS									
Sample Status			SEVERE	ABNORMAL	ABNORMAL				
Particles >4μm	ASTM D7647	>10000	<b>4</b> 98986	<u>42512</u>	<b>43480</b>				
Particles >6μm	ASTM D7647	>2500	<b>26683</b>	<u></u> 5091	3159				
Particles >14μm	ASTM D7647	>160	<b>△</b> 682	47	11				
Particles >21µm	ASTM D7647	>40	<b>105</b>	7	2				
Oil Cleanliness	ISO 4406 (c)	>20/18/14	<b>4</b> 24/22/17	<u>\$\lambda\$\$ 23/20/13</u>	<u>\$\Delta\$ 23/19/11</u>				

Customer Id: ALGMIS Sample No.: WC0908346 Lab Number: 02627017 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Wes Davis +1 905-569-8600 x223 wesd@wearcheck.ca

To change component or sample information: Gloria Gonzalez +1 (289)291-4643 x4643 gloria.gonzalez@wearcheck.com

RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description		
Resample			?	Resample in 30-45 days to monitor this situation.		
Check Breathers			?	The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather.		
Check Dirt Access			?	We advise that you check all areas where contaminants can enter the system.		

## HISTORICAL DIAGNOSIS

## 17 Oct 2023 Diag: Kevin Marson

Iso

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



## 03 Apr 2023 Diag: Kevin Marson



We recommend you service the filters on this component. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



### 24 Aug 2022 Diag: Kevin Marson



We recommend you service the filters on this component. We recommend an early resample to monitor this condition. All component wear rates are normal. Particles >4µm are abnormally high. Particles >6µm and oil cleanliness are abnormally high. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.





## **OIL ANALYSIS REPORT**

Sample Rating Trend



# WCR [100000107834] **DIXNGEN2BRGNDE**

**Non-Drive End Bearing** 

**MOBIL DTE OIL HVY MEDIUM (25 LTR)** 

## DIAGNOSIS

#### Recommendation

We advise that you check all areas where contaminants can enter the system. The oil change at the time of sampling has been noted. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation.

All component wear rates are normal.

## Contamination

There is a high amount of particulates (2 to 100 microns in size) present in the oil. The water content is negligible.

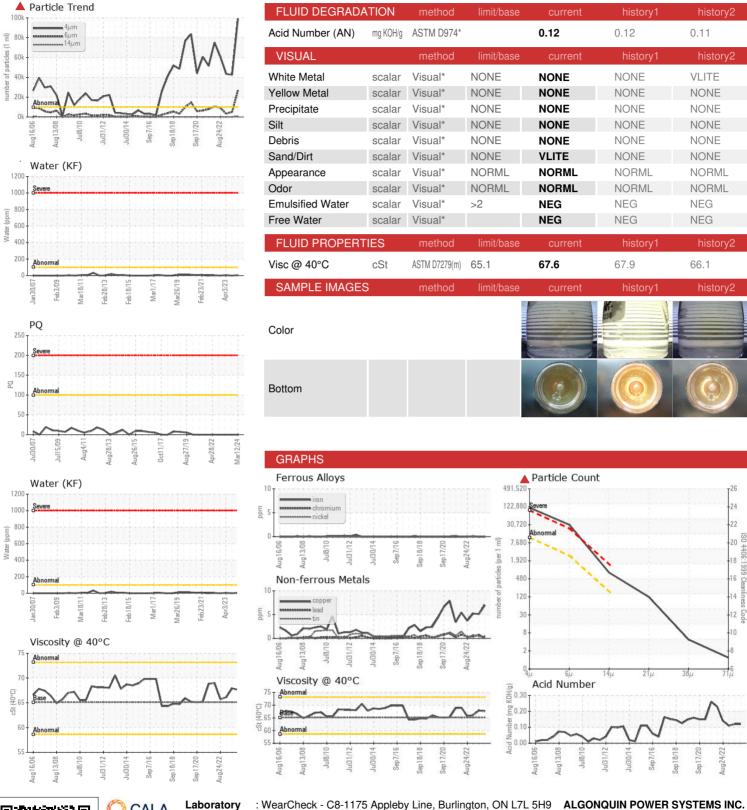
## **Fluid Condition**

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

CAMPLE INCOR	AATIONI		12 24 71		111	1::
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0908346	WC0794338	WC0794330
Sample Date		Client Info		12 Mar 2024	17 Oct 2023	03 Apr 2023
Machine Age	hrs	Client Info		160143	157318	153431
Oil Age	hrs	Client Info		6712	3887	3415
Oil Changed		Client Info		Changed	Filtered	Changed
Sample Status				SEVERE	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		0	0	0
Iron	ppm	ASTM D5185(m)	>20	0	0	<1
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>20	0	0	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	0	0	<1
Lead	ppm	ASTM D5185(m)		0	<1	<1
Copper	ppm	ASTM D5185(m)	>20	7	5	5
Tin	ppm	ASTM D5185(m)	>20	<1	<1	<1
Antimony	ppm	ASTM D5185(m)		0	<1	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		0	<1	0
Barium	ppm	ASTM D5185(m)		0	<1	0
Molybdenum	ppm	ASTM D5185(m)		0	0	0
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)		<1	0	0
Calcium	ppm	ASTM D5185(m)		<1	1	2
Phosphorus	ppm	ASTM D5185(m)		131	135	141
Zinc	ppm	ASTM D5185(m)		89	91	92
Sulfur	ppm	ASTM D5185(m)		1394	1409	1047
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	1	2	1
Sodium	ppm	ASTM D5185(m)		<1	<1	0
Potassium	ppm	ASTM D5185(m)	>20	0	0	0
Water	%	ASTM D6304*	>2	0.001	0.00	0.001
ppm Water	ppm	ASTM D6304*		5	0.00	4.7
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	<b>98986</b>	<u>42512</u>	<b>43480</b>
Particles >6µm		ASTM D7647	>2500	<b>26683</b>	▲ 5091	3159
Particles >14µm		ASTM D7647	>160	<b>▲</b> 682	47	11
Particles >21µm		ASTM D7647	>40	<b>105</b>	7	2
Particles >38µm		ASTM D7647	>10	4	1	0
Particles >38µm Particles >71µm		ASTM D7647 ASTM D7647		4	1	0



## **OIL ANALYSIS REPORT**





CALA ISO 17025:2017 Accredited Laboratory

Sample No. Lab Number

Laboratory

: WC0908346 : 02627017 Unique Number : 5760149

Received : 05 Apr 2024 **Tested** : 08 Apr 2024

Diagnosed : 08 Apr 2024 - Wes Davis

Test Package : IND 2 ( Additional Tests: KF, PQ, PrtCount, TAN Man ) To discuss this sample report, contact Customer Service at 1-800-268-2131.

Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

Submitted By: Cliff Empey

Contact: Antonino Champ Fernando

antoninoChamp.fernando@algonquinpower.com

F: x:

354 DAVIS ROAD

OAKVILLE, ON

T: (905)465-7065

CA L6J 2X1