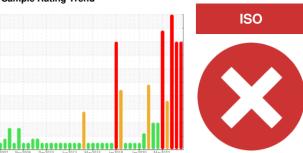


PROBLEM SUMMARY

Sample Rating Trend

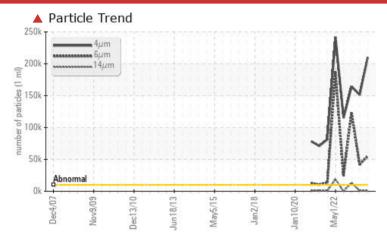


SCV G2 THBR

Thrust Bearing

MOBIL DTE OIL HVY MEDIUM (24 LTR)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

Check seals and/or filters for points of contaminant entry. We advise that you check all areas where contaminants can enter the system. We advise that you check for visible metal particles in the oil. 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. We advise that you follow the water drain-off procedure for this component. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. Resample in 30-45 days to monitor this situation.

PROBLEMATIC TEST RESULTS								
Sample Status				SEVERE	SEVERE	SEVERE		
Particles >4μm		ASTM D7647	>10000	210130	▲ 151252	1 64444		
Particles >6µm		ASTM D7647	>2500	54996	42196	123398		
Particles >14µm		ASTM D7647	>160	659	<u> </u>	1 3170		
Particles >21µm		ASTM D7647	>40	171	<u>^</u> 201	1 035		
Oil Cleanliness		ISO 4406 (c)	>20/18/14	25/23/17	4 24/23/17	2 5/24/21		
White Metal	scalar	Visual*	NONE	▲ VLITE	NONE	NONE		
Appearance	scalar	Visual*	NORML	▲ WGOIL	▲ WGOIL	▲ LAYRD		
Free Water	scalar	Visual*		1 %	<u> </u>	▲ >10%		
PrtFilter				:				

Customer Id: NEWSTJ Sample No.: WC0706236 Lab Number: 02642961 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Kevin Marson +1 (289)291-4644 x4644 Kevin.Marson@wearcheck.com

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		
Change Filter			?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.		
Water Drain-off			?	We advise that you follow the water drain-off procedure for this component.		
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.		
Check For Visual Metal			?	We advise that you check for visible metal particles in the oil.		
Check Seals			?	Check seals and/or filters for points of contaminant entry.		
Filter Fluid			?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.		

HISTORICAL DIAGNOSIS

05 Feb 2024 Diag: Kevin Marson

ISO



Check seals and/or filters for points of contaminant entry. We advise that you check all areas where contaminants can enter the system. 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. We advise that you follow the water drain-off procedure for this component. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. Resample in 30-45 days to monitor this situation. Copper ppm levels are abnormal. Bearing wear is indicated. There is a high amount of particulates (2 to 100 microns in size) present in the oil. Free water present. The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.



WEAR



20 Jun 2023 Diag: Kevin Marson

Check seals and/or filters for points of contaminant entry. We advise that you check all areas where contaminants can enter the system. 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. We recommend that you drain the oil from the component if this has not already been done. Resample in 30-45 days to monitor this situation. Copper ppm levels are severe. Lead ppm levels are noted. Bearing wear is indicated. There is a high amount of particulates (2 to 100 microns in size) present in the oil. There is a moderate concentration of water present in the oil. Excessive free water present. The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.



so



08 Nov 2022 Diag: Kevin Marson

Check seals and/or filters for points of contaminant entry. 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. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation. All component wear rates are normal. Particles >6µm are severely high. Particles >4µm and oil cleanliness are severely high. 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.





OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

SCV G2 THBR

Thrust Bearing

MOBIL DTE OIL HVY MEDIUM (24 LTR)

DIAGNOSIS

Recommendation

Check seals and/or filters for points of contaminant entry. We advise that you check all areas where contaminants can enter the system. We advise that you check for visible metal particles in the oil. 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. We advise that you follow the water drain-off procedure for this component. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. Resample in 30-45 days to monitor this situation.

Wear

Light concentration of visible metal present.

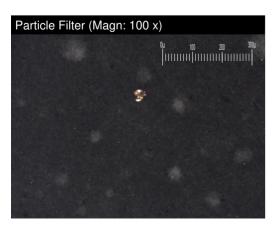
Contamination

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

Fluid Condition

The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0706236	WC0706200	WC0445324
Sample Date		Client Info		18 Jun 2024	05 Feb 2024	20 Jun 2023
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				SEVERE	SEVERE	SEVERE
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>85	15	17	27
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>20	<1	0	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	1
Aluminum	ppm	ASTM D5185(m)	>40	<1	<1	0
Lead	ppm	ASTM D5185(m)	>60	8	21	_ 25
Copper	ppm	ASTM D5185(m)	>7	5	<u> </u>	1 9
Tin	ppm	ASTM D5185(m)	>40	16	15	21
Antimony	ppm	ASTM D5185(m)		1	1	2
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)		<1	0	<1
Barium	ppm	ASTM D5185(m)		0	0	<1
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	<1
Phosphorus	ppm	ASTM D5185(m)		116	154	125
Zinc	ppm	ASTM D5185(m)		80	60	56
Sulfur	ppm	ASTM D5185(m)		1097	1582	1474
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	<1	2	3
Sodium	ppm	ASTM D5185(m)		0	0	0
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
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Silicon	ppm	ASTM D5185(m)	>20	<1	2	3
Sodium	ppm	ASTM D5185(m)		0	0	0
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Water	%	ASTM D6304*	>2	0.040	0.008	
ppm Water	ppm	ASTM D6304*		404	83	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	210130	▲ 151252	1 64444
Particles >6µm		ASTM D7647	>2500	54996	42196	123398
Particles >14µm		ASTM D7647	>160	659	<u>^</u> 742	1 3170
Particles >21µm		ASTM D7647	>40	<u> </u>	<u>^</u> 201	1 035
Particles >38µm		ASTM D7647	>10	14	1 6	5
Particles >71µm		ASTM D7647	>3	1	1	0
Oil Cleanliness		ISO 4406 (c)	>20/18/14	25/23/17	4 24/23/17	▲ 25/24/21



OIL ANALYSIS REPORT





cSt (40°C)



Laboratory

Laboratory Sample No.

Lab Number Unique Number : 5800500

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : WC0706236 Received : 19 Jun 2024

Tested : 20 Jun 2024 : 02642961

Diagnosed : 21 Jun 2024 - Kevin Marson Test Package : IND 2 (Additional Tests: BottomAnalysis, FilterPatch, KF, PrtCount, PrtFilter, TAN MarContact: Paul Martin

50 DUFFY PLACE, PO BOX 8910 ST. JOHNS, NL CA A1B 3P6

pmartin@newfoundlandpower.com T:

NEWFOUNDLAND POWER INC.

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.

F: (709)737-2926