



PROBLEM SUMMARY

Sample Rating Trend



ISO



Machine Id

PRESS 50 (S/N MIR-11-21-PR50)

Component

Hydraulic System

Fluid

ESSO NUTO H ISO 46 (--- GAL)

COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. 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. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

PROBLEMATIC TEST RESULTS

Sample Status			SEVERE	---	---
Particles >4µm	ASTM D7647	>5000	▲ 29696	---	---
Particles >6µm	ASTM D7647	>1300	▲ 10495	---	---
Particles >14µm	ASTM D7647	>160	▲ 1044	---	---
Particles >21µm	ASTM D7647	>40	▲ 282	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 22/21/17	---	---

Customer Id: DYNLIL
 Sample No.: WC0862412
 Lab Number: 02646235
 Test Package: IND 2



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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.
Resample	---	---	?	Resample in 30-45 days to monitor this situation.
Information Required	---	---	?	NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.
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.
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



OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id

PRESS 50 (S/N MIR-11-21-PR50)

Component

Hydraulic System

Fluid

ESSO NUTO H ISO 46 (--- GAL)

DIAGNOSIS

▲ Recommendation

We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. 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. 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 high amount of particulates (2 to 100 microns in size) present in the oil.

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.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0862412	---	---
Sample Date	Client Info		02 Jul 2024	---	---
Machine Age	yrs	Client Info	3	---	---
Oil Age	yrs	Client Info	3	---	---
Oil Changed	Client Info		Filtered	---	---
Sample Status			SEVERE	---	---

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.05	NEG	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	<1	---
Chromium	ppm	ASTM D5185(m)	>20	0	---
Nickel	ppm	ASTM D5185(m)	>20	0	---
Titanium	ppm	ASTM D5185(m)		0	---
Silver	ppm	ASTM D5185(m)		0	---
Aluminum	ppm	ASTM D5185(m)	>20	<1	---
Lead	ppm	ASTM D5185(m)	>20	0	---
Copper	ppm	ASTM D5185(m)	>20	2	---
Tin	ppm	ASTM D5185(m)	>20	0	---
Antimony	ppm	ASTM D5185(m)		0	---
Vanadium	ppm	ASTM D5185(m)		0	---
Beryllium	ppm	ASTM D5185(m)		0	---
Cadmium	ppm	ASTM D5185(m)		0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	<1	---
Barium	ppm	ASTM D5185(m)	0	0	---
Molybdenum	ppm	ASTM D5185(m)	0	0	---
Manganese	ppm	ASTM D5185(m)		0	---
Magnesium	ppm	ASTM D5185(m)	5	<1	---
Calcium	ppm	ASTM D5185(m)	50	55	---
Phosphorus	ppm	ASTM D5185(m)	330	302	---
Zinc	ppm	ASTM D5185(m)	410	372	---
Sulfur	ppm	ASTM D5185(m)	2700	3877	---
Lithium	ppm	ASTM D5185(m)		<1	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	0	---
Sodium	ppm	ASTM D5185(m)		<1	---
Potassium	ppm	ASTM D5185(m)	>20	0	---

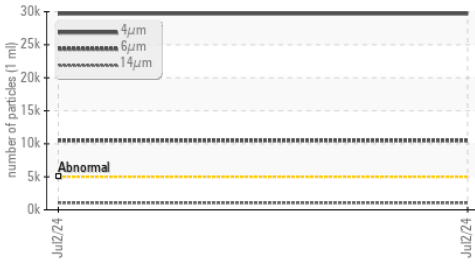
FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	▲ 29696	---	---
Particles >6µm	ASTM D7647	>1300	▲ 10495	---	---
Particles >14µm	ASTM D7647	>160	▲ 1044	---	---
Particles >21µm	ASTM D7647	>40	▲ 282	---	---
Particles >38µm	ASTM D7647	>10	● 16	---	---
Particles >71µm	ASTM D7647	>3	2	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 22/21/17	---	---

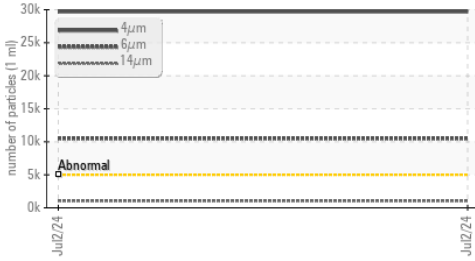


OIL ANALYSIS REPORT

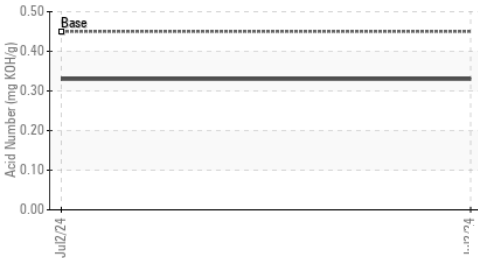
Particle Trend



Particle Trend



Acid Number



Viscosity @ 40°C



FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g	ASTM D974*	0.45	0.33	---
VISUAL				
method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	VLITE
Yellow Metal	scalar	Visual*	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE
Silt	scalar	Visual*	NONE	NONE
Debris	scalar	Visual*	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML
Odor	scalar	Visual*	NORML	NORML
Emulsified Water	scalar	Visual*	>0.05	NEG
Free Water	scalar	Visual*		NEG

FLUID PROPERTIES

method	limit/base	current	history1	history2
Visc @ 40°C cSt	ASTM D7279(m)	46	42.6	---

SAMPLE IMAGES

method	limit/base	current	history1	history2
Color				
Bottom				

GRAPHS

Ferrous Alloys



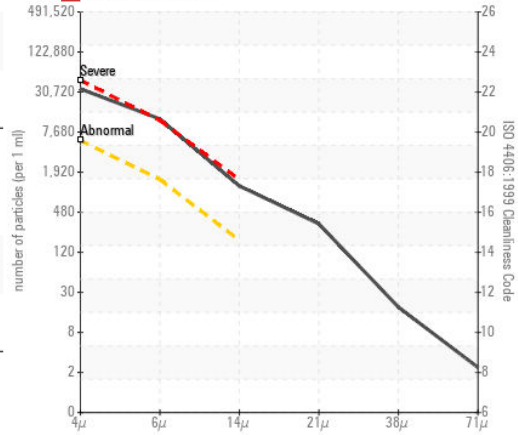
Non-ferrous Metals



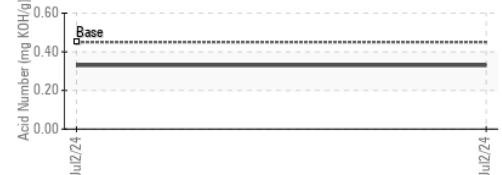
Viscosity @ 40°C



Particle Count



Acid Number



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0862412 **Received** : 08 Jul 2024
Lab Number : **02646235** **Tested** : 09 Jul 2024
Unique Number : 5811787 **Diagnosed** : 09 Jul 2024 - Kevin Marson
Test Package : IND 2 (Additional Tests: Bottom)

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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.