



# PROBLEM SUMMARY

Sample Rating Trend

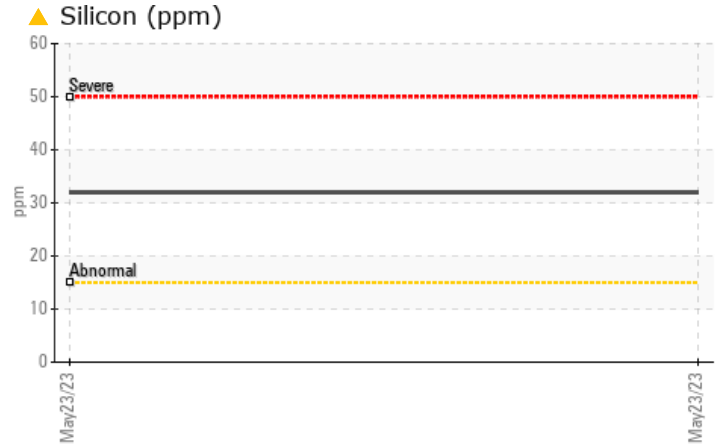
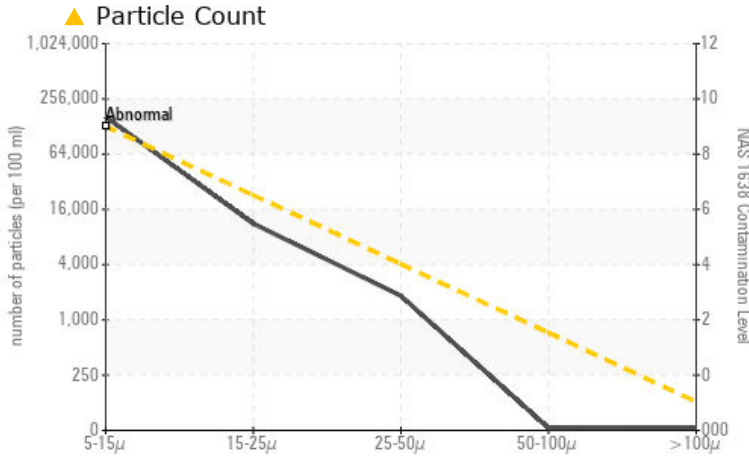


DIRT



Machine Id  
**YZX1**  
 Component  
**Hydraulic System**  
 Fluid  
**MOBIL SHC 629 (90 LTR)**

## COMPONENT CONDITION SUMMARY



## RECOMMENDATION

Check seals and/or filters for points of contaminant entry. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

## PROBLEMATIC TEST RESULTS

Sample Status	ABNORMAL			---	---	
Silicon	ppm	ASTM D5185(m)	>15	▲ 32	---	---
Particles 5-15µm	count	NAS 1638	>128000	▲ 163277	---	---

Customer Id: NAV975DOR  
 Sample No.: WC784945  
 Lab Number: 02563150  
 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](mailto:Kevin.Marson@wearcheck.com)

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

## RECOMMENDED ACTIONS

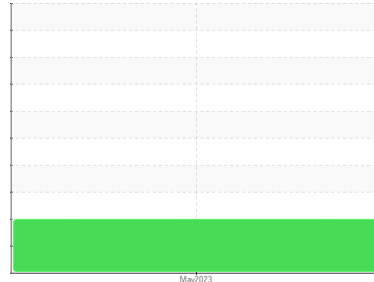
Action	Status	Date	Done By	Description
Change Filter	---	---	?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Check Seals	---	---	?	Check seals and/or 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



# OIL ANALYSIS REPORT

Sample Rating Trend



**DIRT**



Machine Id  
**YZX1**  
 Component  
**Hydraulic System**  
 Fluid  
**MOBIL SHC 629 (90 LTR)**

## DIAGNOSIS

### ▲ Recommendation

Check seals and/or filters for points of contaminant entry. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

### Wear

All component wear rates are normal.

### ▲ Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. High silicon level indicates possible contamination with silicone-based oil or silicone-based fitting compound/grease. Advise investigate any possible cross-contamination with silicone-based oil, or any points that are sealed/greased with silicone-based compound/grease.

### 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		<b>WC784945</b>	---	---
Sample Date	Client Info		<b>23 May 2023</b>	---	---
Machine Age	yrs	Client Info	<b>30</b>	---	---
Oil Age	yrs	Client Info	<b>1</b>	---	---
Oil Changed	Client Info		<b>Changed</b>	---	---
Sample Status			<b>ABNORMAL</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	<1	---
Chromium	ppm	ASTM D5185(m)	>10	0	---
Nickel	ppm	ASTM D5185(m)	>10	0	---
Titanium	ppm	ASTM D5185(m)		0	---
Silver	ppm	ASTM D5185(m)		0	---
Aluminum	ppm	ASTM D5185(m)	>10	<1	---
Lead	ppm	ASTM D5185(m)	>20	<1	---
Copper	ppm	ASTM D5185(m)	>20	0	---
Tin	ppm	ASTM D5185(m)	>10	0	---
Antimony	ppm	ASTM D5185(m)		<1	---
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)		<1	---
Barium	ppm	ASTM D5185(m)		0	---
Molybdenum	ppm	ASTM D5185(m)		0	---
Manganese	ppm	ASTM D5185(m)		0	---
Magnesium	ppm	ASTM D5185(m)		0	---
Calcium	ppm	ASTM D5185(m)		0	---
Phosphorus	ppm	ASTM D5185(m)		503	---
Zinc	ppm	ASTM D5185(m)		5	---
Sulfur	ppm	ASTM D5185(m)		29	---
Lithium	ppm	ASTM D5185(m)		<1	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	▲ 32	---
Sodium	ppm	ASTM D5185(m)		<1	---
Potassium	ppm	ASTM D5185(m)	>20	0	---

## FLUID CLEANLINESS

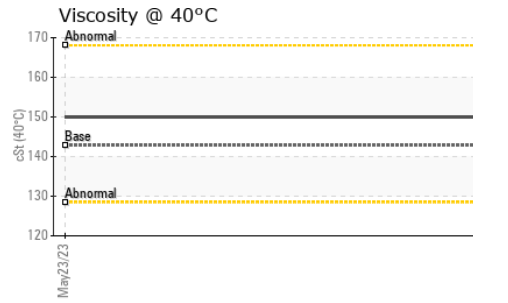
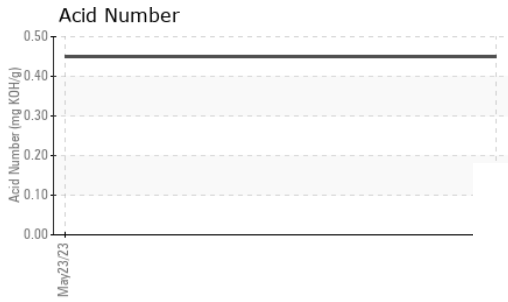
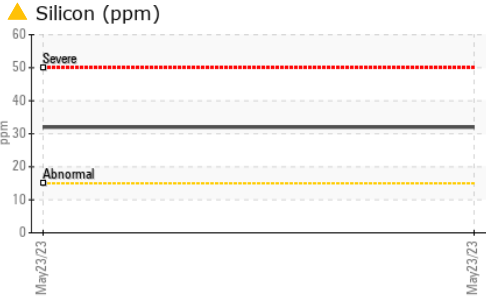
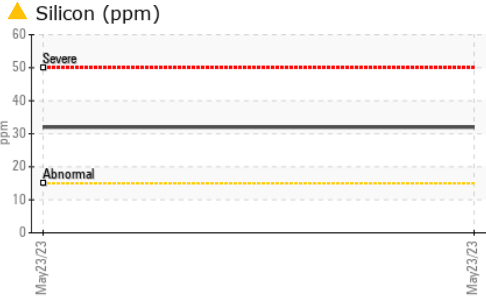
	method	limit/base	current	history1	history2
Particles 5-15µm	count	NAS 1638	>128000	▲ 163277	---
Particles 15-25µm	count	NAS 1638	>22800	11185	---
Particles 25-50µm	count	NAS 1638	>4050	1829	---
Particles 50-100µm	count	NAS 1638	>720	11	---
Particles >100µm	count	NAS 1638	>128	12	---
NAS 1638	Class	NAS 1638	>9	10	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		0.45	---



# OIL ANALYSIS REPORT



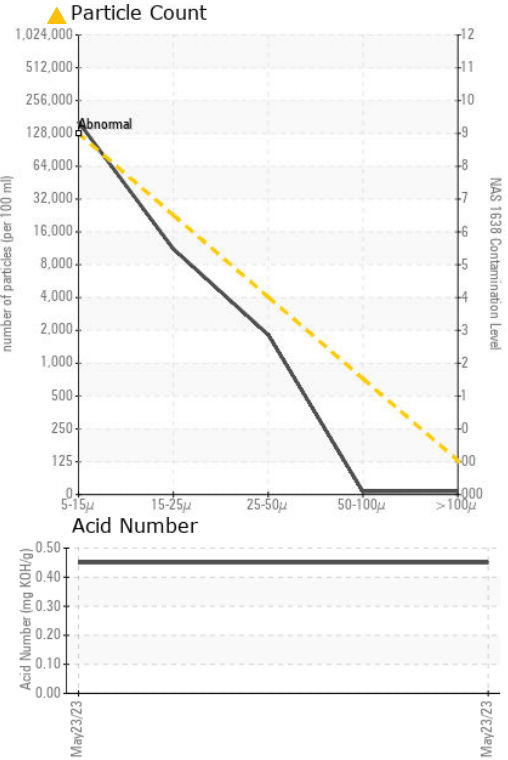
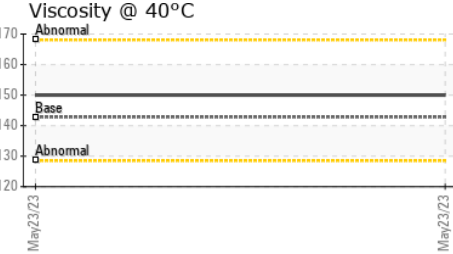
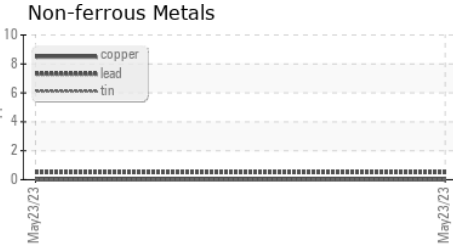
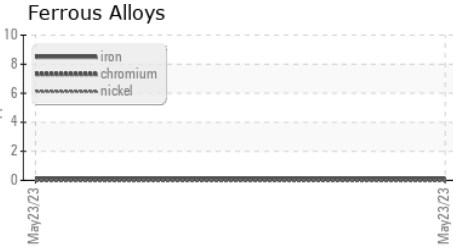
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---
Appearance	scalar	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)	142.8	150	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color		no image	no image
Bottom		no image	no image

### GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC784945      **Received** : 09 Jun 2023  
**Lab Number** : 02563150      **Diagnosed** : 12 Jun 2023  
**Unique Number** : 5592191      **Diagnostician** : Kevin Marson  
**Test Package** : IND 2 ( Additional Tests: PrtCountNAS, TAN Man )

**NAV CANADA**  
 975 ROMEO VACHON BLVD NORD, TOUR DE DORVAL - SALLE 1-1  
 DORVAL, QC  
 CA H4Y 1H1  
 Contact: Sylvain Glay

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.

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