

Current

PC0075949

14 May 2024

History1

History2

## Machine Id **MANITOU NO UNIT PC0075949 Diesel Engine** DIESEL ENGINE OIL SAE 5W40 (--- GAL)

## RECOMMENDATION

We advise that you check for the source of the coolant leak. We recommend that you drain the oil from the component if this has already been done. We advise that you flush the component thoroughly before re-filling with oil. We recommend an early res to monitor this condition. The fluid was not specified, however, a match indicates that this fluid is (GENERIC) DIESEL ENGINE C 5W40. Please confirm.

Test

Sample Number

Sample Date

UOM

Method

Client Info

Client Info

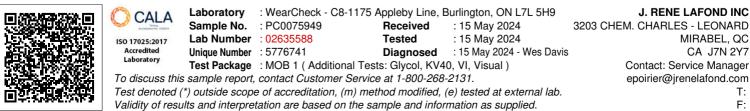
Limit/Abn

## WEAR

## **CONTAMINATION**

recommend that you drain the oil from the component if this has not already been done. We advise that you flush the component thoroughly before re-filling with oil. We recommend an early resample to monitor this condition. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 5W40. Please confirm.	Sample Date		Client Into		14 May 2024	 
	Machine Age	hrs	Client Info		2786	 
	Oil Age	hrs	Client Info		0	 
	Filter Age	hrs	Client Info		0	 
	Oil Changed		Client Info		N/A	 
	Filter Changed		Client Info		N/A	 
	Sample Status		Oliciti IIIO		ABNORMAL	 
WEAR	Iron	ppm	ASTM D5185(m)	>100	36	 
All component wear rates are normal.	Chromium	ppm	ASTM D5185(m)		2	 
	Nickel	ppm	ASTM D5185(m)		0	 
	Titanium	ppm	ASTM D5185(m)	21	0	 
	Silver	ppm	ASTM D5185(m)	<u>\</u> 3	0	 
	Aluminum		ASTM D5185(m)		3	 
		ppm				
	Lead	ppm	ASTM D5185(m)		0	 
	Copper	ppm	ASTM D5185(m)		4	 
	Tin	ppm	ASTM D5185(m)	>15	0	 
	Vanadium	ppm	ASTM D5185(m)	NOUT	0	 
	White Metal	scalar	Visual*	NONE	NONE	 
	Yellow Metal	scalar	Visual*	NONE	NONE	 
	Cilling			05	c .	
CONTAMINATION	Silicon	ppm	ASTM D5185(m)		6	 
Test for glycol is positive. There is a moderate concentration of glycol present in the oil.	Potassium	ppm	ASTM D5185(m)		▲ 25	 
	Fuel		WC Method		<1.0	 
	Water		WC Method	>0.2	NEG	 
	Glycol	%	ASTM D7922*		▲ 0.095	 
	Soot %	%	ASTM D7844*	>3	0.3	 
	Nitration	Abs/cm	ASTM D7624*	>20	12.1	 
	Sulfation	Abs/.1mm	ASTM D7415*	>30	22.9	 
	Silt	scalar	Visual*	NONE	VLITE	 
	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*	>0.2	NEG	 
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)	>44	<b>310</b>	 
The oil is no longer serviceable due to the presence of contaminants.	Boron	ppm	ASTM D5185(m)	250	33	 
	Barium	ppm		10	0	 
	Molybdenum	ppm	ASTM D5185(m)	100	68	 
	Manganese	ppm	ASTM D5185(m)		<1	 
	Magnesium	ppm	ASTM D5185(m)	450	430	 
	Calcium	ppm	ASTM D5185(m)		1942	 
	Phosphorus	ppm	ASTM D5185(m)	1150	1159	 
	Zinc	ppm	ASTM D5185(m)	1350	1344	 
	Sulfur	ppm	ASTM D5185(m)	4250	2933	 
	Oxidation	Abs/.1mm	ASTM D7414*	>25	18.5	 
	Visc @ 40°C	cSt	ASTM D7279(m)	91	86.1	 
	Visc @ 100°C	cSt	ASTM D7279(m)	14.4	12.6	 
	Viscosity Index (VI)		ASTM D2270*	164	143	 





Contact/Location: Service Manager - JREMIR Page 2 of 2

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/av1

0.30

0.22

0.18

0.16

0.14

0.12

0.10

0.08

0.20 @