

Machine Id Pedestal Bearing Center Main Engine Component Center Bearing Fluid MOBIL DTE OIL HVY MEDIUM (18 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

There is no indication of any contamination in the oil.

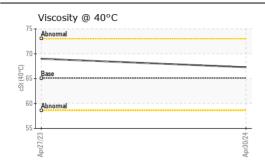
FLUID CONDITION

The condition of the oil is acceptable for the time in service.

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0807866	WC0807841	
Sample Date		Client Info		30 Apr 2024	27 Apr 2023	
Machine Age	hrs	Client Info		55415	54793	
Oil Age	hrs	Client Info		0	1919	
Filter Age	hrs	Client Info		0	0	
Oil Changed		Client Info		Changed	Changed	
Filter Changed		Client Info		None	Not Changd	
Sample Status			NORMAL	NORMAL		
Iron		ASTM D5185(m)	>20	0	<1	
Chromium	ppm	ASTM D5185(m)	>20	0	0	
Nickel	ppm	ASTM D5185(m)	>2	0	0	
Titanium	ppm	ASTM D5185(m)	>2	0	0	
Silver	ppm	ASTM D5185(m)		0	0	
Aluminum	ppm	()	. 5	0	-	
Lead	ppm	ASTM D5185(m) ASTM D5185(m)	>5 >25	4	<1 5	
	ppm	ASTM D5185(m)		-	-	
Copper	ppm	(/	>5	<1	<1	
Tin	ppm	ASTM D5185(m)	>15	0	0	
Vanadium White Metal	ppm	ASTM D5185(m) Visual*	NONE		NONE	
	scalar		NONE	NONE NONE		
Yellow Metal	scalar	Visual*	NONE		NONE	
Silicon	ppm	ASTM D5185(m)	>15	0	0	
Silicon Potassium	ppm ppm	ASTM D5185(m) ASTM D5185(m)	>15 >20	0 <1	0	
		. ,		-	-	
Potassium		ASTM D5185(m)	>20	<1	0	
Potassium Water	ppm	ASTM D5185(m) WC Method	>20 >0.1	<1 NEG	0 NEG	
Potassium Water Silt	ppm scalar	ASTM D5185(m) WC Method Visual*	>20 >0.1 NONE	<1 NEG NONE	0 NEG NONE	
Potassium Water Silt Debris	ppm scalar scalar	ASTM D5185(m) WC Method Visual* Visual*	>20 >0.1 NONE NONE	<1 NEG NONE NONE	0 NEG NONE NONE	
Potassium Water Silt Debris Sand/Dirt	ppm scalar scalar scalar	ASTM D5185(m) WC Method Visual* Visual* Visual*	>20 >0.1 NONE NONE NONE	<1 NEG NONE NONE NONE	0 NEG NONE NONE	
Potassium Water Silt Debris Sand/Dirt Appearance	ppm scalar scalar scalar scalar	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual*	>20 >0.1 NONE NONE NONE	<1 NEG NONE NONE NONE NORML	0 NEG NONE NONE NONE NORML	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	ppm scalar scalar scalar scalar scalar	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual*	>20 >0.1 NONE NONE NORML NORML	<1 NEG NONE NONE NORML NORML NEG	0 NEG NONE NONE NORML NORML NEG	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	ppm scalar scalar scalar scalar scalar scalar	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m)	>20 >0.1 NONE NONE NORML NORML	<1 NEG NONE NONE NORML NORML NEG 0	0 NEG NONE NONE NORML NORML NEG	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	ppm scalar scalar scalar scalar scalar scalar ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m)	>20 >0.1 NONE NONE NORML NORML	<1 NEG NONE NONE NORML NORML NEG 0 <1	0 NEG NONE NONE NORML NORML NEG 0 0	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	ppm scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m)	>20 >0.1 NONE NONE NORML NORML	<1 NEG NONE NONE NORML NORML NEG 0 <1 0	0 NEG NONE NONE NORML NORML NEG 0 0	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	ppm scalar scalar scalar scalar scalar ppm ppm ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>20 >0.1 NONE NONE NORML NORML	<1 NEG NONE NONE NORML NORML NEG 0 <1 0 0	0 NEG NONE NONE NORML NORML NEG 0 0 0 0 0	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>20 >0.1 NONE NONE NORML NORML	<1 NEG NONE NONE NORML NORML NEG 0 <1 0 <1 0 0 0	0 NEG NONE NONE NORML NORML NEG 0 0 0 0 0 0 0	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>20 >0.1 NONE NONE NORML NORML	<1 NEG NONE NONE NORML NORML NEG 0 <1 0 <1 0 0 0 0 0	0 NEG NONE NONE NORML NORML NEG 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium Calcium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>20 >0.1 NONE NONE NORML NORML	<1 NEG NONE NONE NORML NORML NEG 0 <1 0 0 0 0 0 0 0 0 0	0 NEG NONE NONE NORML NORML NEG 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium Calcium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>20 >0.1 NONE NONE NORML NORML	<1 NEG NONE NONE NORML NORML NEG 0 <1 0 0 0 0 <1 0 0 0 1 116	0 NEG NONE NONE NORML NORML NEG 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>20 >0.1 NONE NONE NORML NORML	<1 NEG NONE NONE NORML NORML NEG 0 <1 0 0 0 <1 0 0 <1 116 88	0 NEG NONE NONE NORML NORML NEG 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Malybdenum Manganese Magnesium Calcium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>20 >0.1 NONE NONE NORML NORML	<1 NEG NONE NONE NORML NORML NEG 0 <1 0 0 0 0 <1 0 0 0 1 116	0 NEG NONE NONE NORML NORML NEG 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	

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Contact/Location: Chief Engineer - CCGSHLAR



Ferrous Alloys 10 mdd 0 Non-ferrous Metals 10 lead ppm Apr27 Viscosity @ 40°C 75 74 73 72 71 70 69 68 (c) 67 (d) 66 경 65 Ba 64 63 62 61 60 59 Abn 58 57 Apr27/23 Anr30/74

CANADIAN COAST GUARD Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CALA Sample No. : WC0807866 Received : 23 May 2024 CCGS HENRY LARSEN, P.O. BOX 5667, 280 SOUTHSIDE RD. Lab Number : 02637304 Tested : 24 May 2024 ST. JOHN'S, NL ISO 17025:2017 Accredited Laboratory Unique Number : 5786466 Diagnosed : 24 May 2024 - Wes Davis CA A1C 5X1 Test Package : MAR 1 Contact: Chief Engineer To discuss this sample report, contact Customer Service at 1-800-268-2131. henrylarsence@ccgs-ngcc.gc.ca Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T: (709)687-5198 Validity of results and interpretation are based on the sample and information as supplied. F: (709)685-3187

Contact/Location: Chief Engineer - CCGSHLAR Page 2 of 2