

## **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

# PME (S/N 526105492)

Component 
Port Main Engine Fluid MOBIL DELVAC 1640 (205 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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0711971	WC0611577	WC0537904
Sample Date		Client Info		12 Dec 2023	08 Feb 2022	28 Aug 2021
Machine Age	hrs	Client Info		8473	7175	6744
Oil Age	hrs	Client Info		352	0	469
Oil Changed		Client Info		N/A	Changed	Not Change
Sample Status				NORMAI	NORMAI	NORMAI
Campie Glaids	_			NOTIMAL	NOT IN A	NOT IN A
CONTAMINATION	N	method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>75	5	6	4
Chromium	ppm	ASTM D5185(m)	>8	0	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>3	0	0	0
Silver	ppm	ASTM D5185(m)	>2	<1	0	<1
Aluminum	ppm	ASTM D5185(m)	>15	1	2	1
Lead	ppm	ASTM D5185(m)	>18	<1	<1	0
Copper	ppm	ASTM D5185(m)	>80	1	2	2
Tin	ppm	ASTM D5185(m)	>14	0	0	<1
Antimony	ppm	ASTM D5185(m)		0	<1	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Bervllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
		method	limit/base	current	history1	history?
ADDITIVES			mmubase	current	, instory i	nistory2
Boron	ppm	ASTM D5185(m)		2	1	2
Barium	ppm	ASTM D5185(m)		<1	0	0
Molybdenum	ppm	ASTM D5185(m)		0	<1	<1
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)		202	247	246
Calcium	ppm	ASTM D5185(m)		3968	3880	3736
Phosphorus	ppm	ASTM D5185(m)		924	977	971
Zinc	ppm	ASTM D5185(m)		1074	1112	1070
Sulfur	ppm	ASTM D5185(m)		7701	7920	7886
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	6	8	8
Sodium	ppm	ASTM D5185(m)	>75	2	<1	<1
Potassium	ppm	ASTM D5185(m)	>20	0	<1	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		0.1	0	0
Nitration	Abs/cm	ASTM D7624*	>20	9.0	8.8	8.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.9	19.6	18.3



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FLUID DEGRADATION		method				history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.2	13.4	12.3
Base Number (BN)	mg KOH/g	ASTM D2896*	12	13.31	12.54	13.07
VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	14.7	15.0	14.8	14.5





Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Canadian Coast Guard - CCGS Constable Carriere CALA Sample No. : WC0711971 Received : 18 Dec 2023 867 Lakeshore Road Lab Number : 02603685 Tested : 22 Dec 2023 Burlington, ON ISO 17025:2017 Accredited Laboratory CA L7R 4A6 Unique Number : 5696770 Diagnosed : 22 Dec 2023 - Wes Davis Test Package : MAR 2 Contact: Chief Engineer To discuss this sample report, contact Customer Service at 1-800-268-2131. constablecarriereCE@ccgs-ngcc.gc.ca Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T: (705)542-2737 Validity of results and interpretation are based on the sample and information as supplied. F: x:

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