

WEAR CONTAMINATION **FLUID CONDITION**

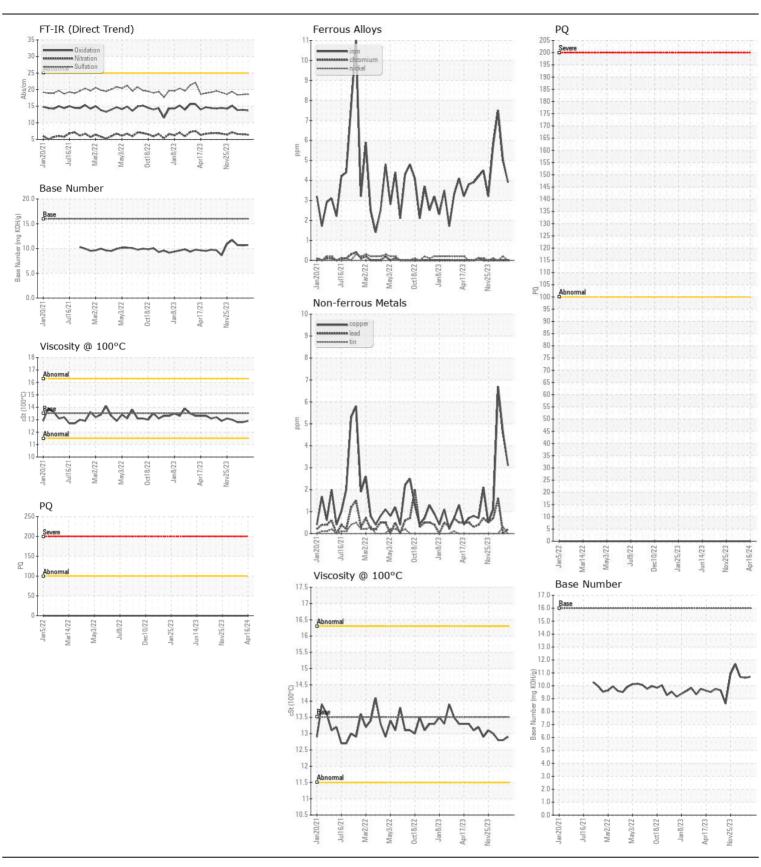
NORMAL NORMAL NORMAL



AH3111 - Auxiliary Generator Genset

PETRO CANADA CM MHP 154 (138 LTR)

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WC0900564	WC0855641	WC0855644
	Sample Date		Client Info		16 Apr 2024	24 Mar 2024	03 Mar 2024
	Machine Age	hrs	Client Info		25115	24585	24091
	Oil Age	hrs	Client Info		500	494	500
	Filter Age	hrs	Client Info		500	494	500
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	ABNORMAL	NORMAL
WEAR	PQ		ASTM D8184*		0	0	0
All component wear rates are normal.	Iron	ppm	ASTM D5185(m)	>50	4	5	8
	Chromium	ppm	ASTM D5185(m)	>4	0	0	0
	Nickel	ppm	ASTM D5185(m)	>2	0	<1	0
	Titanium	ppm	ASTM D5185(m)		0	0	0
	Silver	ppm	ASTM D5185(m)	>5	0	0	0
	Aluminum	ppm	ASTM D5185(m)	>12	<1	<1	0
	Lead	ppm	ASTM D5185(m)	>17	<1	0	2
	Copper	ppm	ASTM D5185(m)	>70	3	5	7
	Tin	ppm	ASTM D5185(m)	>15	0	<1	0
	Vanadium	ppm	ASTM D5185(m)		0	0	0
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>25	2	4	9
	Potassium	ppm	ASTM D5185(m)	>20	0	0	<1
There is no indication of any contamination in the oil.	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
	Soot %	%	ASTM D7844*		0	0	0
	Nitration	Abs/cm	ASTM D7624*	>20	6.4	6.5	6.6
	Sulfation	Abs/.1mm	ASTM D7415*	>30	18.6	18.5	18.4
	Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		2	2	2
	Boron	ppm	ASTM D5185(m)		10	11	8
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185(m)		0	0	<1
	Molybdenum	ppm	ASTM D5185(m)		55	54	53
	Manganese	ppm	ASTM D5185(m)		<1	<1	0
	Magnesium	ppm	ASTM D5185(m)		893	866	892
	Calcium	ppm	ASTM D5185(m)		1373	1462	1542
	Phosphorus	ppm	ASTM D5185(m)		982	950	984
	Zinc	ppm	ASTM D5185(m)	1098	1140	1136	1164
	Sulfur	ppm	ASTM D5185(m)		2991	3102	3182
	Oxidation	Abs/.1mm	ASTM D7414*	>25	13.7	13.9	13.8
	Base Number (BN)	mg KOH/g	ASTM D2896*	15.99	10.70	10.61	10.68
	Visc @ 100°C	cSt	ASTM D7279(m)		12.9	12.8	12.8
Report Id: CCGSAH [WCAMIS] 02635165 (Generated: 05/15/2024 15:41:47) Rev: 1			(::ontact/l	ocation: Ch	iet Engineer	- CCGSAH





CALA ISO 17025:2017 Accredited

Laboratory

Laboratory Sample No. Lab Number

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : WC0900564

: 02635165 Unique Number : 5776318 Test Package: MAR 2 (Additional Tests: PQ)

Received **Tested** Diagnosed

: 14 May 2024 : 15 May 2024

: 15 May 2024 - Kevin Marson

CANADIAN COAST GUARD/DFO CCGS ANN HARVEY, P.O. BOX 5667 ST. JOHN'S, NL **CA A1C 5X1**

Contact: Chief Engineer annharveyce@ccgs-ngcc.gc.ca T:

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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