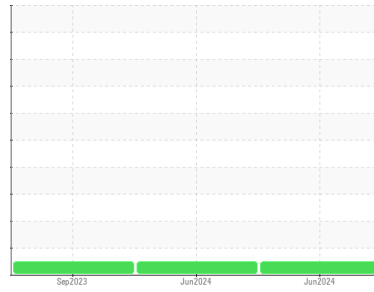




OIL ANALYSIS REPORT

Machine Id
CATERPILLAR Génératrice tribord (S/N C6T00277)
 Component
Starboard Genset
 Fluid
CHEVRON DELO 400 XLE 15W40 (15 LTR)

Sample Rating Trend



NORMAL



DIAGNOSIS

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.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			WC0854772	WC0854771	WC0854770
Sample Date	Client Info			22 Jun 2024	03 Jun 2024	23 Sep 2023
Machine Age	hrs	Client Info		26003	25761	24577
Oil Age	hrs	Client Info		254	472	635
Oil Changed	Client Info			Not Chngd	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

CONTAMINATION		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	0.0	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>62	5	6	8
Chromium	ppm	ASTM D5185(m)	>3	0	0	0
Nickel	ppm	ASTM D5185(m)	>2	0	<1	<1
Titanium	ppm	ASTM D5185(m)		4	15	11
Silver	ppm	ASTM D5185(m)	>5	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>4	2	2	2
Lead	ppm	ASTM D5185(m)	>25	0	0	2
Copper	ppm	ASTM D5185(m)	>274	2	3	8
Tin	ppm	ASTM D5185(m)	>2	0	0	0
Antimony	ppm	ASTM D5185(m)		0	0	0
Vanadium	ppm	ASTM D5185(m)		0	<1	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0

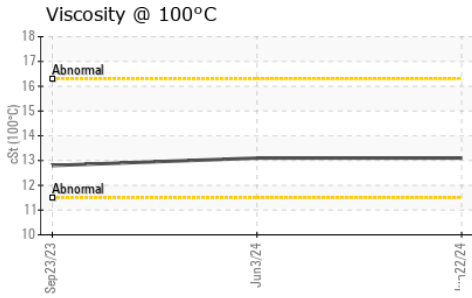
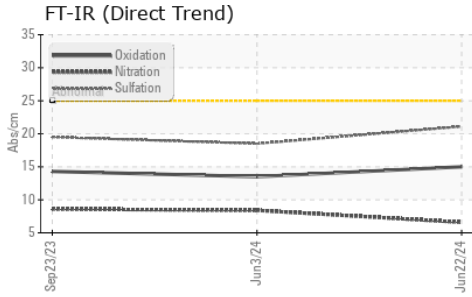
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		257	67	120
Barium	ppm	ASTM D5185(m)		0	0	<1
Molybdenum	ppm	ASTM D5185(m)		95	29	48
Manganese	ppm	ASTM D5185(m)		<1	<1	0
Magnesium	ppm	ASTM D5185(m)		596	661	608
Calcium	ppm	ASTM D5185(m)		1431	1402	1547
Phosphorus	ppm	ASTM D5185(m)		702	651	773
Zinc	ppm	ASTM D5185(m)		816	724	921
Sulfur	ppm	ASTM D5185(m)		2182	2357	2519
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	4	4	4
Sodium	ppm	ASTM D5185(m)		2	5	4
Potassium	ppm	ASTM D5185(m)	>20	<1	10	<1

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		0.1	0.2	0.2
Nitration	Abs/cm	ASTM D7624*	>20	6.6	8.4	8.6
Sulfation	Abs.1mm	ASTM D7415*	>30	21.1	18.5	19.5



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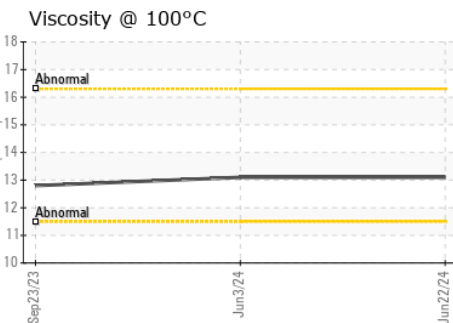
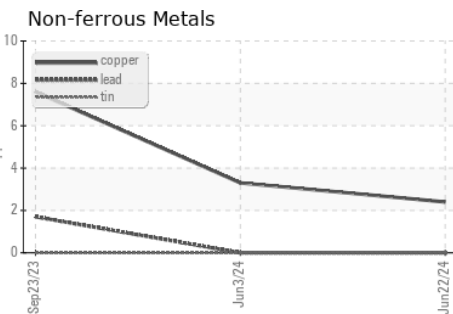
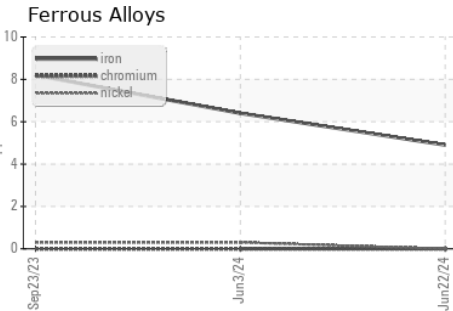


FLUID DEGRADATION	method	limit/base	current	history1	history2	
Oxidation	Abs./1mm	ASTM D7414*	>25	15.0	13.5	14.3

VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	VLITE	VLITE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D7279(m)		13.1	13.1	12.8

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0854772
Lab Number : **02646162**
Unique Number : 5811714
Test Package : MAR 1

Canadian Coast Guard - CCGS Leim
 850 route de la mer,
 Mont-Joli, QC
 CA G5H 3Z4
 Contact: Philippe Clermont
 Leimce@ccgs-ngcc.gc.ca
 T: (418)732-2978
 F:

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.