



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL



Machine Id
MG2APU (S/N NF300270)
Component
Genset
Fluid
CAT DEO ULS 10W30 (37 LTR)

RECOMMENDATION

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We 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. The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. (Customer Sample Comment: New oil and Fuel Filters changed. Oil Cat DEO-ULS 10W-30)

WEAR

All component wear rates are normal.

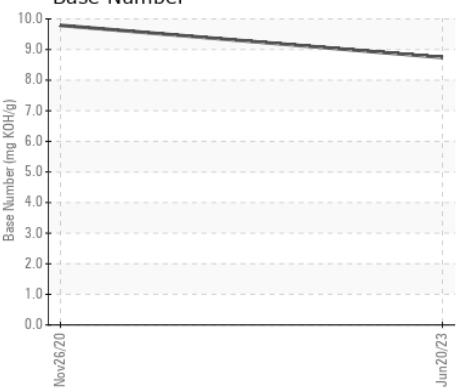
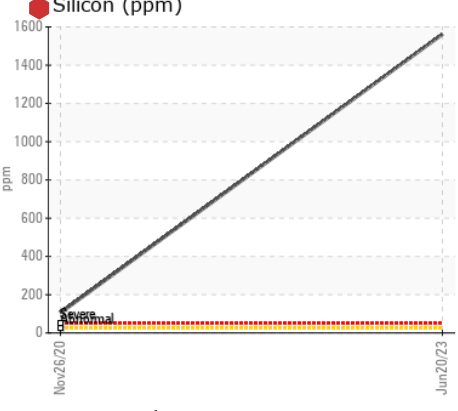
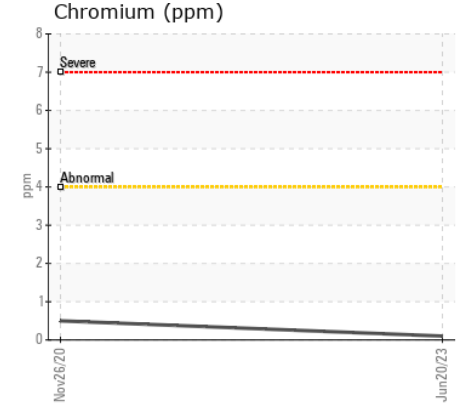
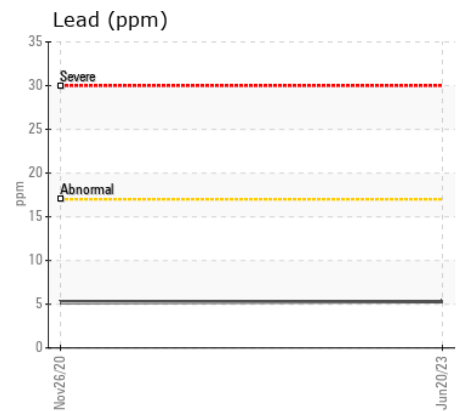
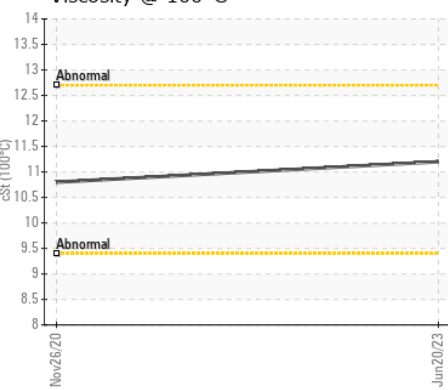
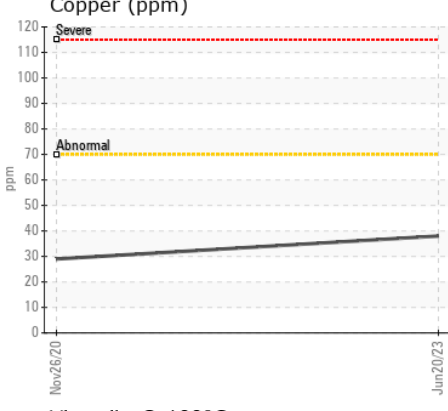
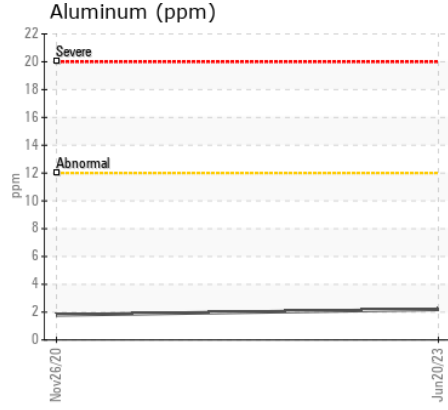
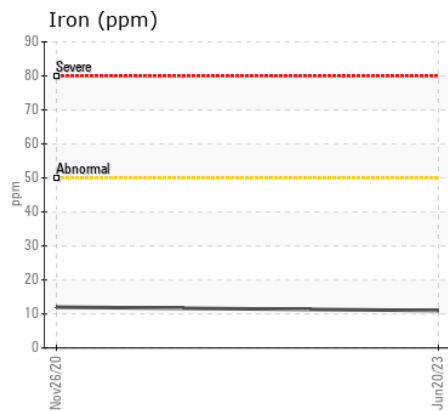
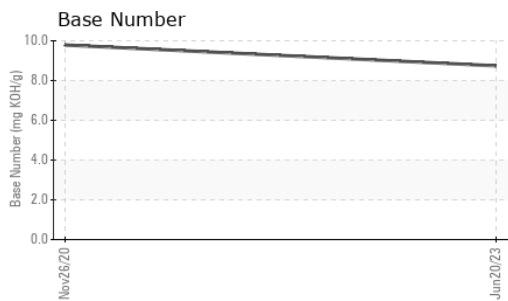
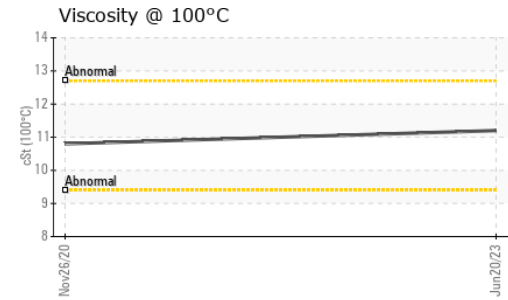
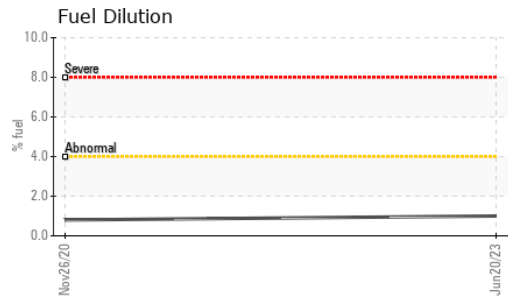
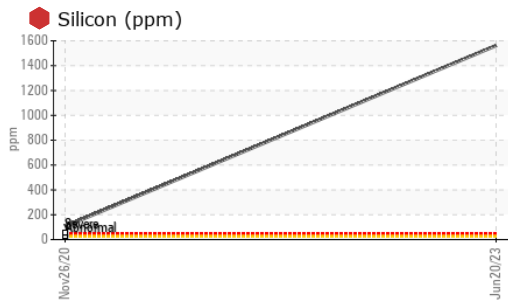
CONTAMINATION

Light fuel dilution occurring. High concentration of dirt present in the oil. No other contaminants were detected in the oil.

FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0455585	WC0327928	---
Sample Date		Client Info		20 Jun 2023	26 Nov 2020	---
Machine Age	hrs	Client Info		152	0	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		N/A	N/A	---
Filter Changed		Client Info		Changed	N/A	---
Sample Status				SEVERE	SEVERE	---
PQ		ASTM D8184*		0	---	---
Iron	ppm	ASTM D5185(m)	>50	11	12	---
Chromium	ppm	ASTM D5185(m)	>4	<1	<1	---
Nickel	ppm	ASTM D5185(m)	>2	0	<1	---
Titanium	ppm	ASTM D5185(m)		0	<1	---
Silver	ppm	ASTM D5185(m)	>5	<1	<1	---
Aluminum	ppm	ASTM D5185(m)	>12	2	2	---
Lead	ppm	ASTM D5185(m)	>17	5	5	---
Copper	ppm	ASTM D5185(m)	>70	38	29	---
Tin	ppm	ASTM D5185(m)	>15	3	3	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
Silicon	ppm	ASTM D5185(m)	>25	1562	105	---
Potassium	ppm	ASTM D5185(m)	>20	1	1	---
Fuel	%	ASTM D7593*	>4.0	1	0.8	---
Water		WC Method	>0.1	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	ASTM D7844*		0	0	---
Nitration	Abs/cm	ASTM D7624*	>20	6.5	5.3	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.7	22.9	---
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	---
Sodium	ppm	ASTM D5185(m)		5	5	---
Boron	ppm	ASTM D5185(m)		57	62	---
Barium	ppm	ASTM D5185(m)		6	8	---
Molybdenum	ppm	ASTM D5185(m)		38	38	---
Manganese	ppm	ASTM D5185(m)		3	4	---
Magnesium	ppm	ASTM D5185(m)		472	492	---
Calcium	ppm	ASTM D5185(m)		1708	1584	---
Phosphorus	ppm	ASTM D5185(m)		867	913	---
Zinc	ppm	ASTM D5185(m)		896	1088	---
Sulfur	ppm	ASTM D5185(m)		2374	2527	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	20.0	20.0	---
Base Number (BN)	mg KOH/g	ASTM D2896*		8.74	9.79	---
Visc @ 100°C	cSt	ASTM D7279(m)		11.2	10.8	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0455585 **Received** : 27 Sep 2023
Lab Number : 02585464 **Diagnosed** : 28 Sep 2023
Unique Number : 5646529 **Diagnostician** : Kevin Marson
Test Package : MOB 2 (Additional Tests: FuelDilution, PercentFuel, PQ)

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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.