



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
1671 - DERT PORTABLE GENSET #1
 Component
Diesel Engine
 Fluid
ESSO XD-3 EXTRA 15W40 CJ-4 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0896270	WC0774085	WC0655194
Sample Date		Client Info		28 Mar 2024	20 Mar 2023	18 May 2022
Machine Age	hrs	Client Info		789	747	687
Oil Age	hrs	Client Info		43	60	27
Filter Age	hrs	Client Info		43	60	27
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>90	2	2	4
Chromium	ppm	ASTM D5185(m)	>20	0	0	<1
Nickel	ppm	ASTM D5185(m)	>2	0	0	<1
Titanium	ppm	ASTM D5185(m)	>2	0	<1	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<1	2	1
Lead	ppm	ASTM D5185(m)	>40	0	<1	0
Copper	ppm	ASTM D5185(m)	>330	<1	0	<1
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

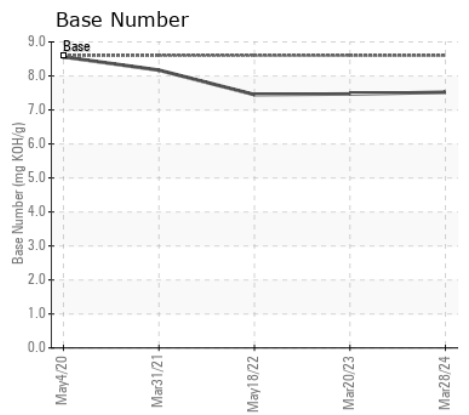
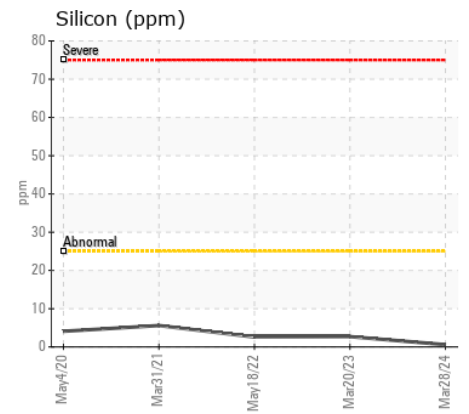
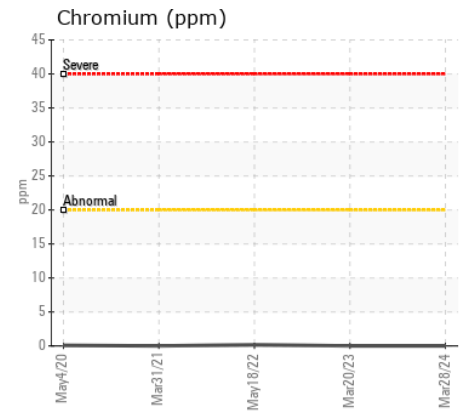
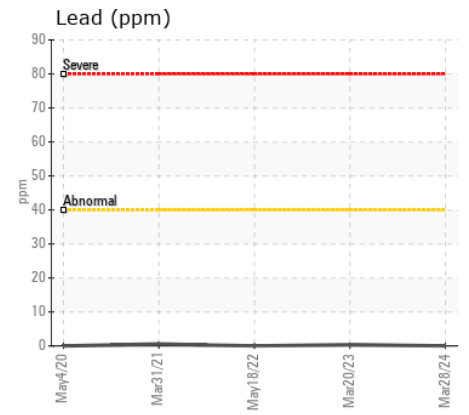
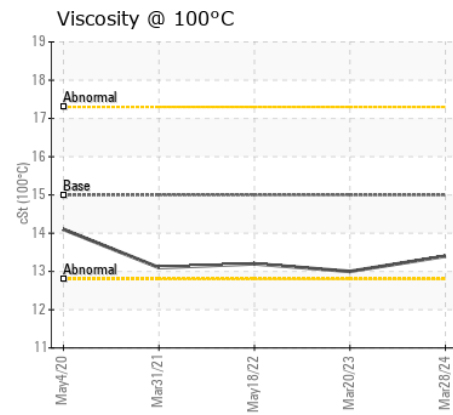
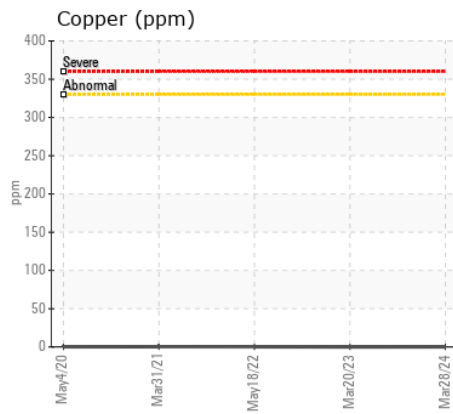
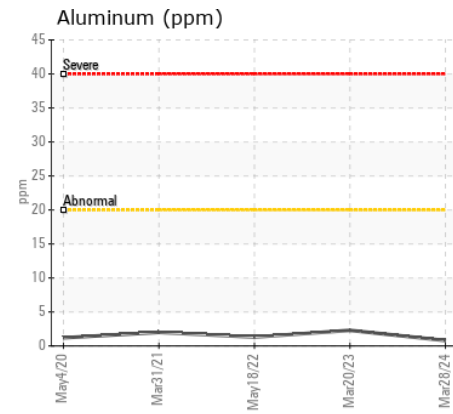
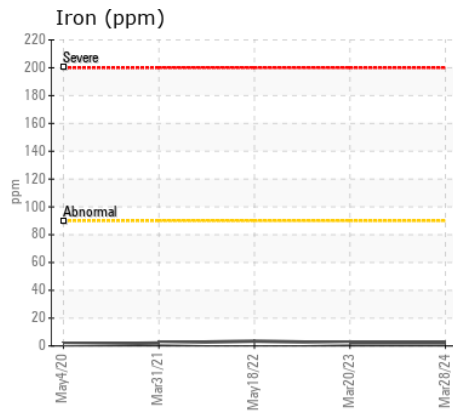
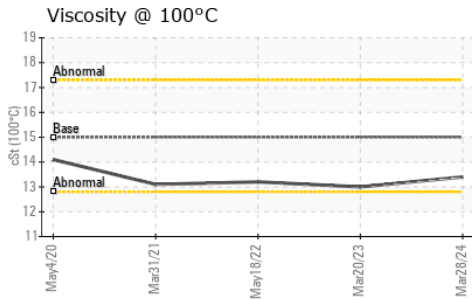
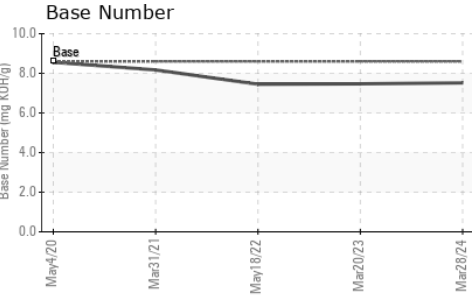
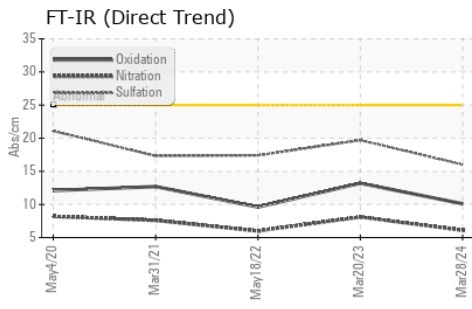
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<1	3	3
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	1
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>6	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	6.1	8.1	6.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	16.0	19.7	17.4
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

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.

Sodium	ppm	ASTM D5185(m)	>118	1	2	2
Boron	ppm	ASTM D5185(m)		25	65	9
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		23	78	9
Manganese	ppm	ASTM D5185(m)		0	0	<1
Magnesium	ppm	ASTM D5185(m)		101	19	12
Calcium	ppm	ASTM D5185(m)	2360	2127	2200	2119
Phosphorus	ppm	ASTM D5185(m)	1110	892	1085	897
Zinc	ppm	ASTM D5185(m)	1220	1021	1122	975
Sulfur	ppm	ASTM D5185(m)		3010	3281	3048
Oxidation	Abs/.1mm	ASTM D7414*	>25	10.1	13.2	9.6
Base Number (BN)	mg KOH/g	ASTM D2896*	8.6	7.52	7.47	7.45
Visc @ 100°C	cSt	ASTM D7279(m)	15	13.4	13.0	13.2



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0896270
Lab Number : 02627599
Unique Number : 5760731
Test Package : MOB 2
Received : 09 Apr 2024
Tested : 09 Apr 2024
Diagnosed : 09 Apr 2024 - Wes Davis

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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.