



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
THORNES ENTERPRISES LTD
Machine Id
HOTEL GENERATOR
Component
Front Genset
Fluid
IRVING 15W40 (15 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		OF0000357	OF0000196	OF0000198
Sample Date		Client Info		15 Dec 2023	12 Jun 2021	30 Sep 2019
Machine Age	hrs	Client Info		0	6208	4601
Oil Age	hrs	Client Info		200	743	848
Filter Age	hrs	Client Info		200	743	848
Oil Changed		Client Info		Not Changd	N/A	Changed
Filter Changed		Client Info		Not Changd	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184*		0	0	13
Iron	ppm	ASTM D5185(m)	>50	3	5	6
Chromium	ppm	ASTM D5185(m)	>4	0	0	<1
Nickel	ppm	ASTM D5185(m)	>2	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>5	0	0	0
Aluminum	ppm	ASTM D5185(m)	>12	2	2	<1
Lead	ppm	ASTM D5185(m)	>17	0	1	1
Copper	ppm	ASTM D5185(m)	>70	<1	1	<1
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

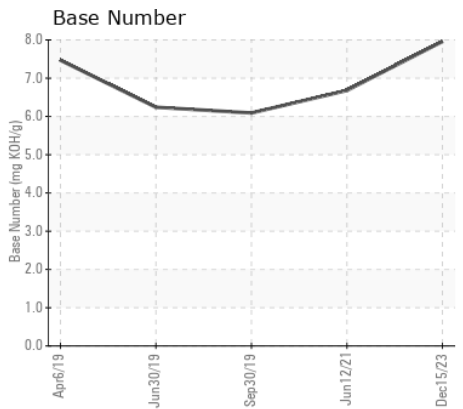
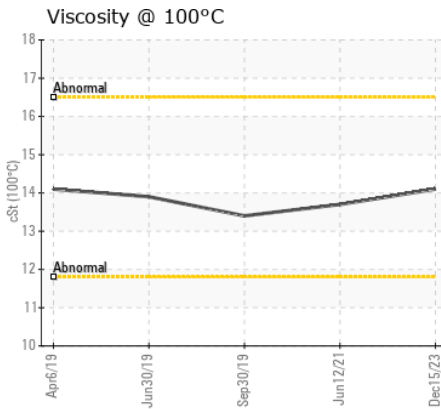
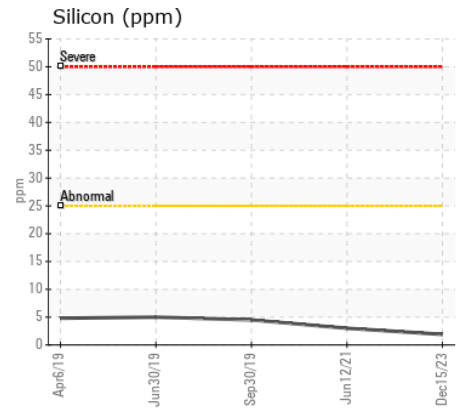
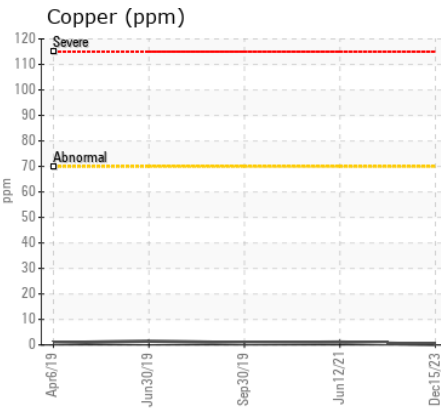
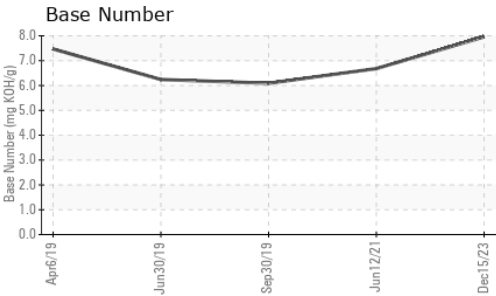
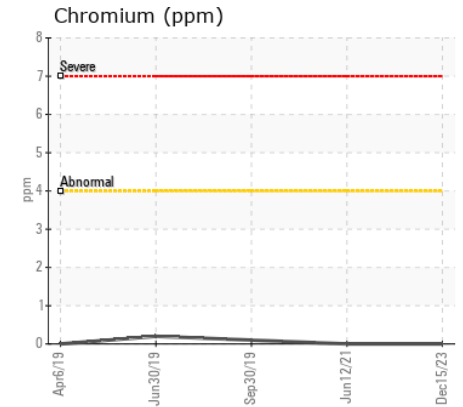
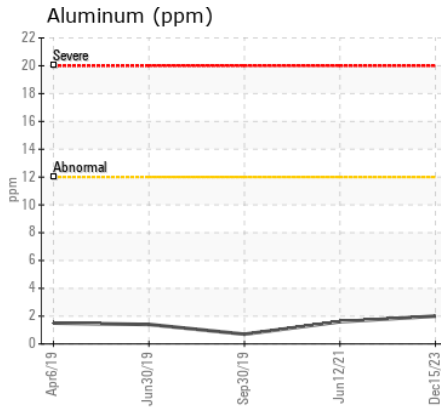
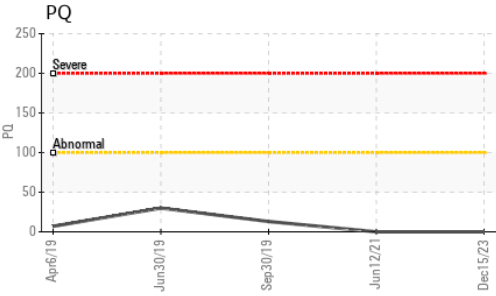
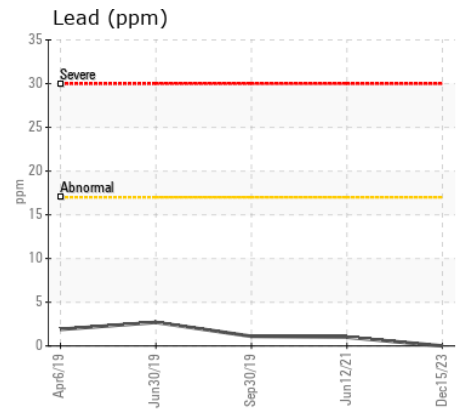
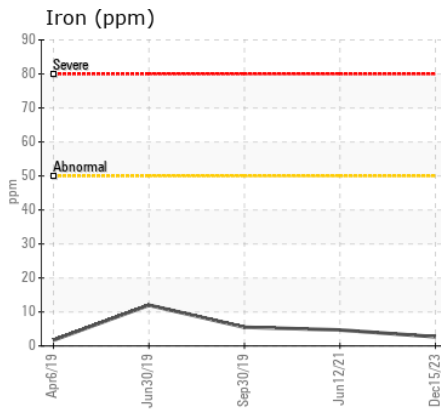
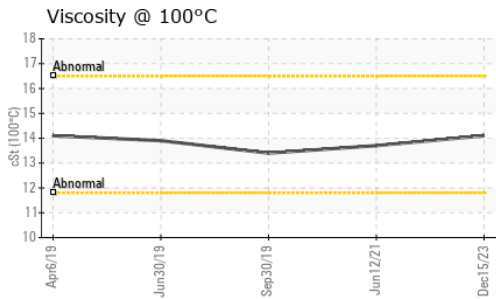
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	2	3	4
Potassium	ppm	ASTM D5185(m)	>20	<1	0	<1
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	9.4	10.9	11.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.9	20.4	23.2
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	NEG

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)	>101	2	<1	0
Boron	ppm	ASTM D5185(m)		46	29	33
Barium	ppm	ASTM D5185(m)		0	<1	<1
Molybdenum	ppm	ASTM D5185(m)		3	5	2
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)		48	31	9
Calcium	ppm	ASTM D5185(m)		2042	2115	2144
Phosphorus	ppm	ASTM D5185(m)		965	964	980
Zinc	ppm	ASTM D5185(m)		1113	1191	1171
Sulfur	ppm	ASTM D5185(m)		3249	3292	3192
Oxidation	Abs/.1mm	ASTM D7414*	>25	15.7	17.0	17.1
Base Number (BN)	mg KOH/g	ASTM D2896*		7.96	6.68	6.09
Visc @ 100°C	cSt	ASTM D7279(m)		14.1	13.7	13.4



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : OF0000357 **Received** : 17 Jan 2024
Lab Number : 02609279 **Diagnosed** : 18 Jan 2024
Unique Number : 5710365 **Diagnostician** : Kevin Marson
Test Package : MOB 2 (Additional Tests: 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.