



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
LAKESHORE E3

Component
Genset

Fluid
PETRO CANADA ATF DEXRON III/MERCON (60 LTR)

RECOMMENDATION

We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

WEAR

All component wear rates are normal.

CONTAMINATION

There is a moderate concentration of water present in the oil.

FLUID CONDITION

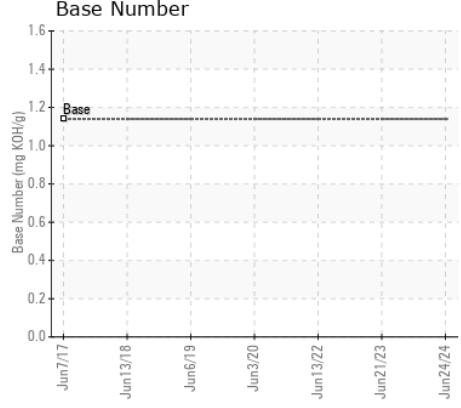
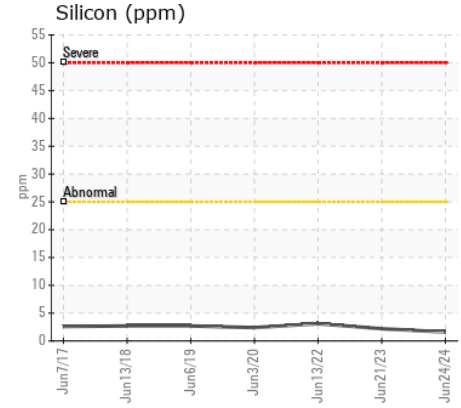
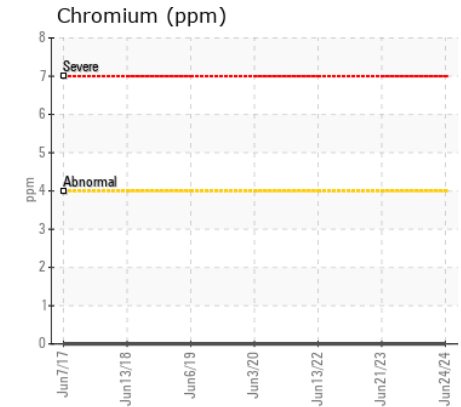
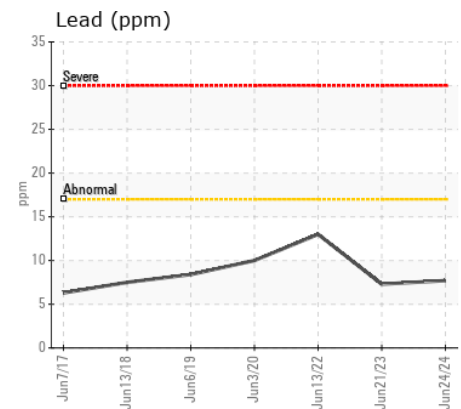
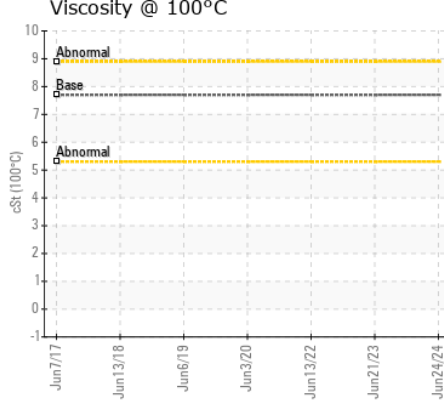
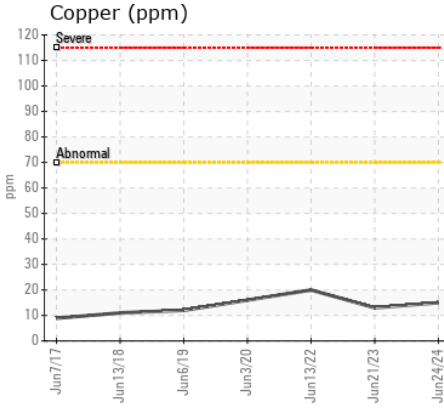
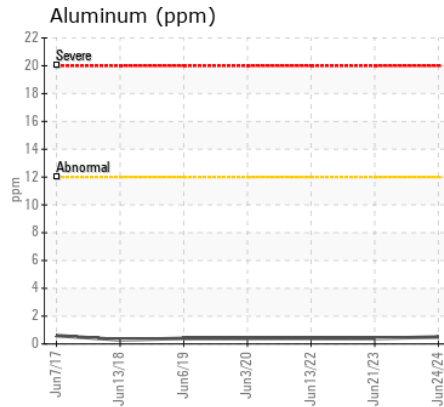
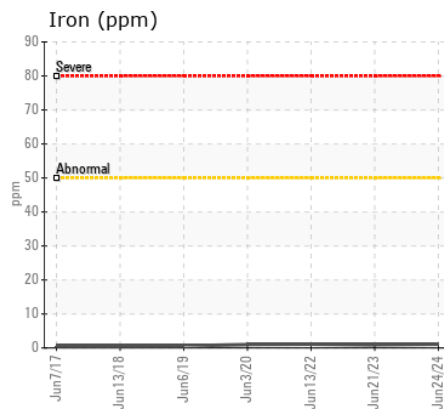
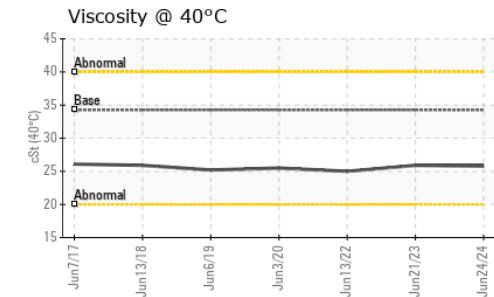
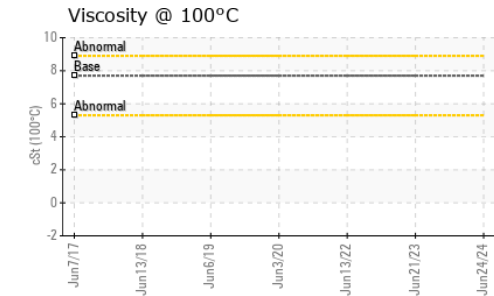
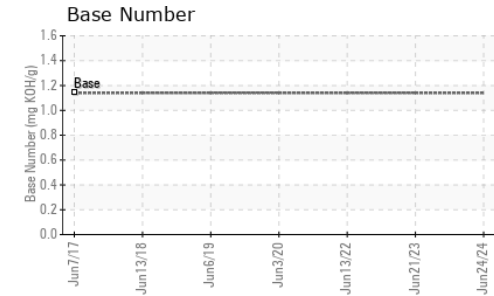
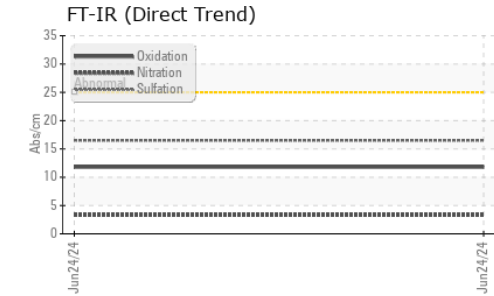
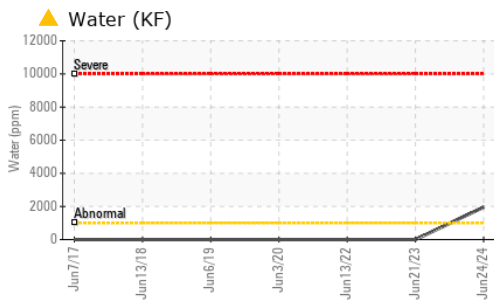
The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0933478	WC0760625	WC0661123
Sample Date		Client Info		24 Jun 2024	21 Jun 2023	13 Jun 2022
Machine Age	hrs	Client Info		0	35	0
Oil Age	hrs	Client Info		0	35	15
Filter Age	hrs	Client Info		30	35	15
Oil Changed		Client Info		Not Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL

PQ	UOM	Method	Limit/Abn	Current	History1	History2
Iron	ppm	ASTM D5185(m)	>50	1	<1	1
Chromium	ppm	ASTM D5185(m)	>4	0	0	0
Nickel	ppm	ASTM D5185(m)	>2	0	0	<1
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	<1
Lead	ppm	ASTM D5185(m)	>17	8	7	13
Copper	ppm	ASTM D5185(m)	>70	15	13	20
Tin	ppm	ASTM D5185(m)	>15	2	1	2
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

Silicon	ppm	ASTM D5185(m)	>25	2	2	3
Potassium	ppm	ASTM D5185(m)	>20	3	<1	1
Fuel	%	ASTM D7593*	>4.0	<1.0	<1.0	<1.0
Water	%	ASTM D6304*	>0.1	▲ 0.195	---	---
ppm Water	ppm	ASTM D6304*	>1000	▲ 1957	---	---
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*		0	---	---
Nitration	Abs/cm	ASTM D7624*	>20	3.3	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	16.5	---	---
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	▲ .2%	NEG	NEG

Sodium	ppm	ASTM D5185(m)		3	2	3
Boron	ppm	ASTM D5185(m)	130	73	78	63
Barium	ppm	ASTM D5185(m)	1.0	<1	<1	2
Molybdenum	ppm	ASTM D5185(m)	0.0	<1	<1	<1
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)	1.0	2	3	3
Calcium	ppm	ASTM D5185(m)	20	85	85	93
Phosphorus	ppm	ASTM D5185(m)	280	241	260	251
Zinc	ppm	ASTM D5185(m)	10	85	79	123
Sulfur	ppm	ASTM D5185(m)	440	721	743	798
Oxidation	Abs/.1mm	ASTM D7414*	>25	11.8	---	---
Base Number (BN)	mg KOH/g	ASTM D2896*	1.14	1.56	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	34.26	25.8	25.9	25.0



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0933478
Lab Number : 02644391
Unique Number : 5801930
Test Package : MOB 2 (Additional Tests: FuelDilution, KF, KV40, PercentFuel, PQ, VI, Visual)

Received : 27 Jun 2024
Tested : 05 Jul 2024
Diagnosed : 05 Jul 2024 - Kevin Marson

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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.