



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ABNORMAL

Machine Id
CASE 570MXT L-15 (S/N JJG0301384)
 Component
Front Diesel Engine
 Fluid
SAFETY-KLEEN ECOPOWER 15W40 CJ-4 (11 LTR)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0922835	WC0772766	WC0550243
Sample Date		Client Info		04 Jul 2024	05 Mar 2024	06 Dec 2022
Machine Age	hrs	Client Info		7469	7407	6999
Oil Age	hrs	Client Info		61	316	218
Filter Age	hrs	Client Info		61	316	218
Oil Changed		Client Info		Not Changed	Changed	Not Changed
Filter Changed		Client Info		Not Changed	Changed	Not Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	10	10	13
Chromium	ppm	ASTM D5185(m)	>20	<1	2	2
Nickel	ppm	ASTM D5185(m)	>4	0	0	0
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	1	2	2
Lead	ppm	ASTM D5185(m)	>40	0	0	<1
Copper	ppm	ASTM D5185(m)	>330	<1	<1	2
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	VLITE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

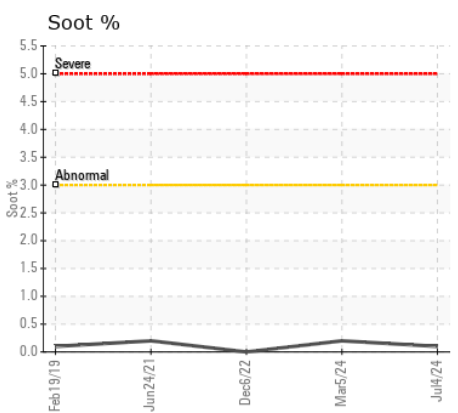
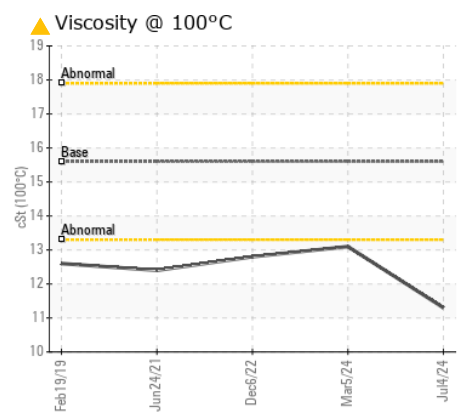
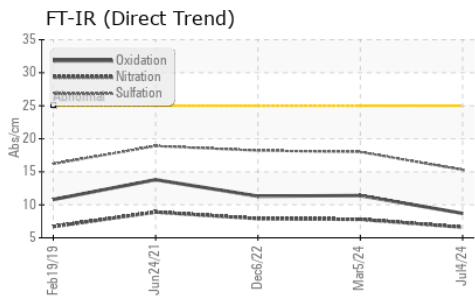
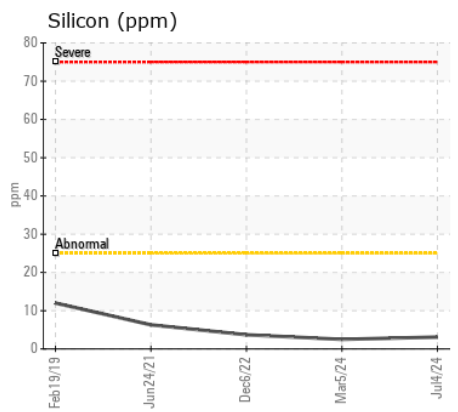
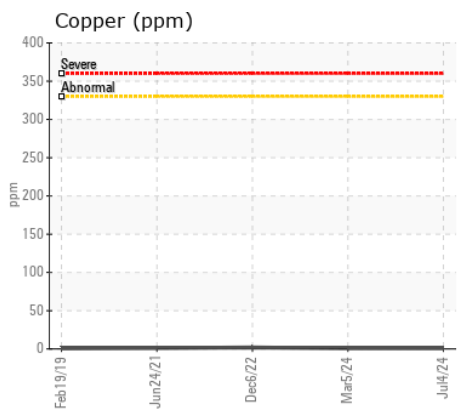
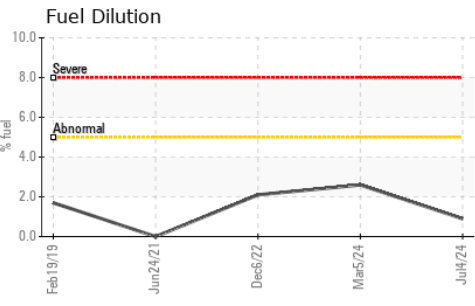
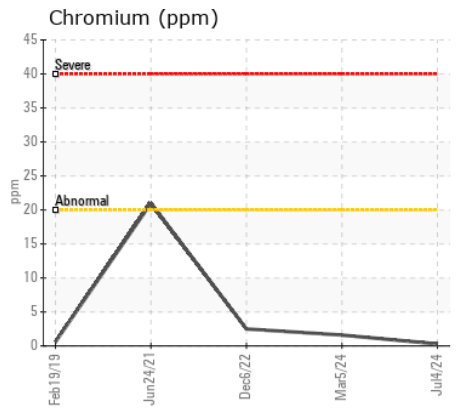
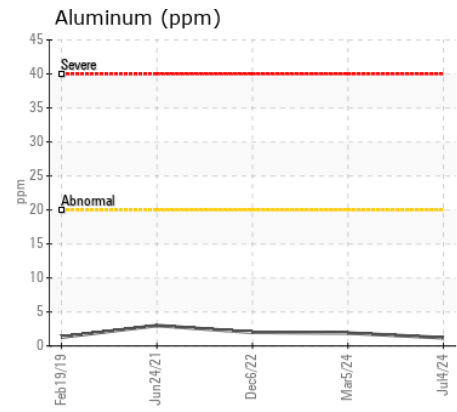
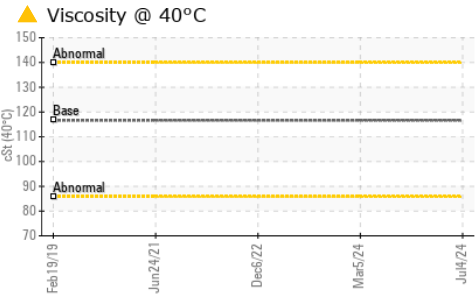
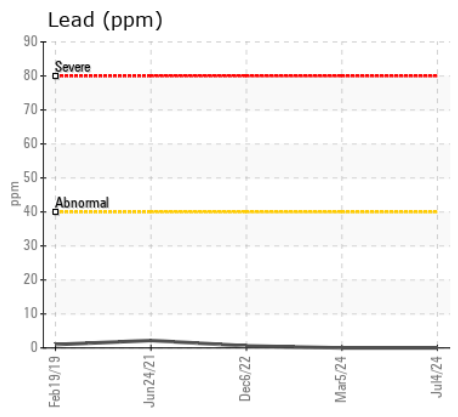
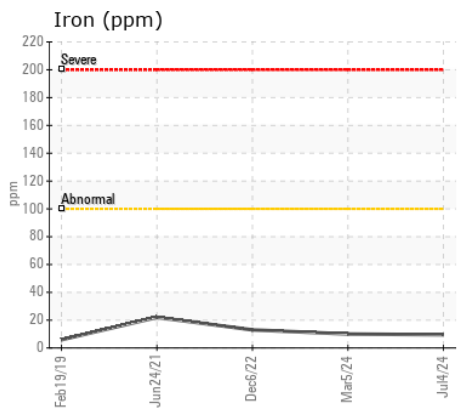
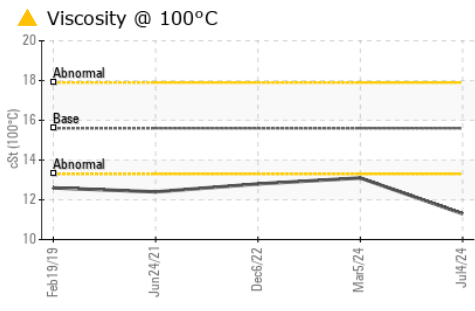
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	3	2	4
Potassium	ppm	ASTM D5185(m)	>20	<1	2	<1
Fuel	%	ASTM D7593*	>5	0.9	▲ 2.6	▲ 2.1
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.1	0.2	0
Nitration	Abs/cm	ASTM D7624*	>20	6.6	7.8	7.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	15.3	18.0	18.2
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

Viscosity of sample indicates oil is within SAE 10W30 range, advise investigate. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		1	1	3
Boron	ppm	ASTM D5185(m)	0	14	4	25
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	50	24	9	29
Manganese	ppm	ASTM D5185(m)		<1	0	<1
Magnesium	ppm	ASTM D5185(m)	825	148	116	49
Calcium	ppm	ASTM D5185(m)	925	1786	2160	2169
Phosphorus	ppm	ASTM D5185(m)	850	755	885	952
Zinc	ppm	ASTM D5185(m)	1000	876	1009	1017
Sulfur	ppm	ASTM D5185(m)	2250	2471	3026	3046
Oxidation	Abs/.1mm	ASTM D7414*	>25	8.7	11.4	11.3
Visc @ 40°C	cSt	ASTM D7279(m)	116.6	▲ 76.2	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	▲ 11.3	▲ 13.1	▲ 12.8
Viscosity Index (VI)	Scale	ASTM D2270*	141	139	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0922835 **Received** : 05 Jul 2024
Lab Number : 02645732 **Tested** : 08 Jul 2024
Unique Number : 5803271 **Diagnosed** : 08 Jul 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: FuelDilution, KV40, PercentFuel, VI, Visual)

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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.