



POWER SYSTEMS
SYSTÈMES DE PUISSANCE

COOLANT REPORT

CORROSION

ABNORMAL

CONTAMINANTS

NORMAL

COOLANT CONDITION

ABNORMAL

Area

[6100298921]

Machine Id

PERKINS U218161L

Component

Coolant

Fluid

DETROIT DIESEL POWER COOL (--- GAL)

RECOMMENDATION

We recommend drain system, and refill with 50/50 antifreeze water mixture. We advise that you replenish the supplemental coolant additives (SCAs) and add per manufacturer's specifications. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WA0020217	WA0016842	WA0015077
Sample Date		Client Info		18 Jun 2024	06 Jul 2022	21 Jul 2021
Machine Age	hrs	Client Info		0	333	328
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	NORMAL

CORROSION

Copper and lead ppm levels are abnormal. The high metal levels indicate corrosion in the system.

Iron	ppm	ASTM D5185(m)	>15	4	1	<1
Aluminum	ppm	ASTM D5185(m)	>10	<1	2	2
Copper	ppm	ASTM D5185(m)	>10	▲ 21	2	1
Lead	ppm	ASTM D5185(m)	>10	▲ 15	▲ 51	40
Tin	ppm	ASTM D5185(m)	>10	0	<1	0
Silver	ppm	ASTM D5185(m)	>10	0	<1	<1
Zinc	ppm	ASTM D5185(m)	>10	4	1	2

CONTAMINANTS

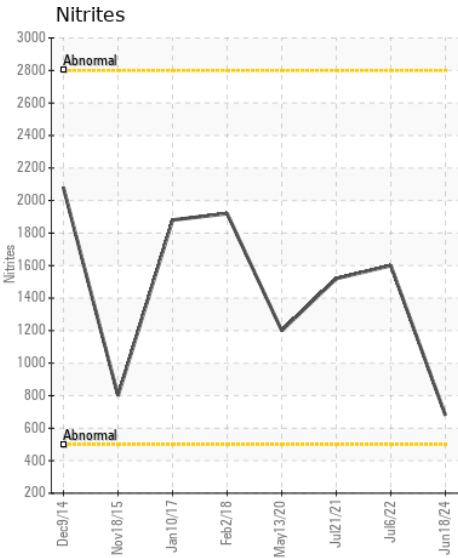
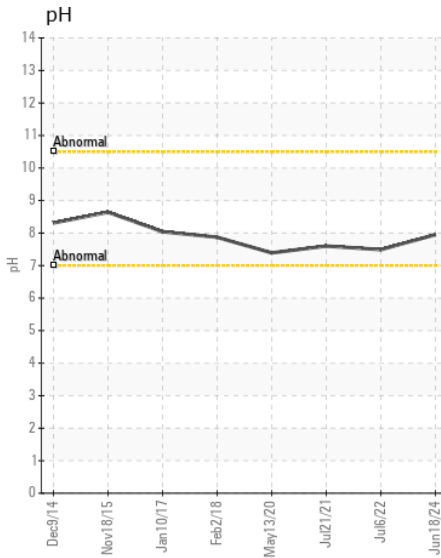
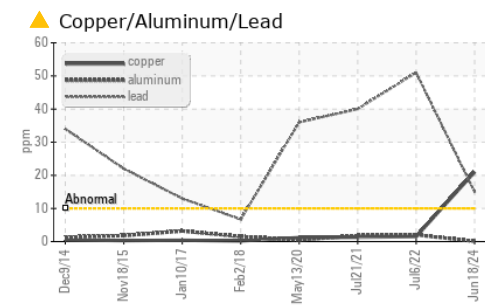
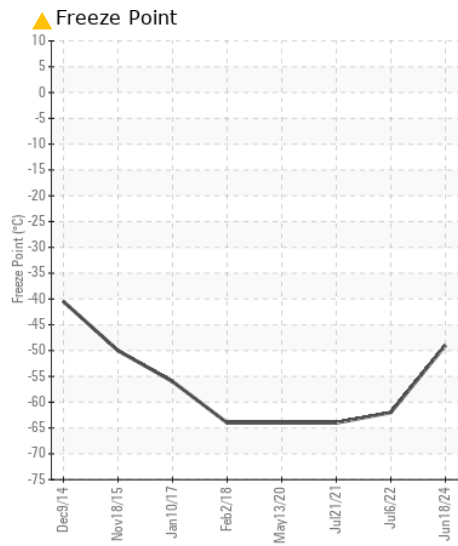
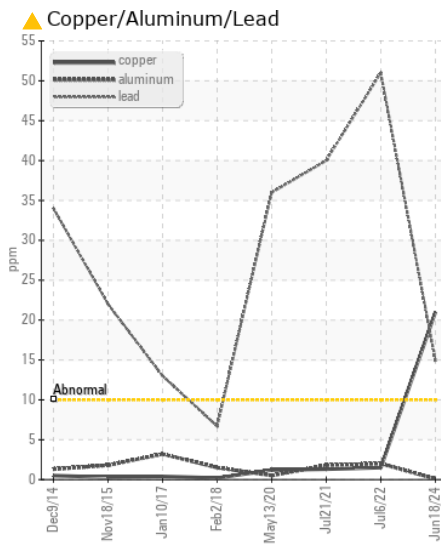
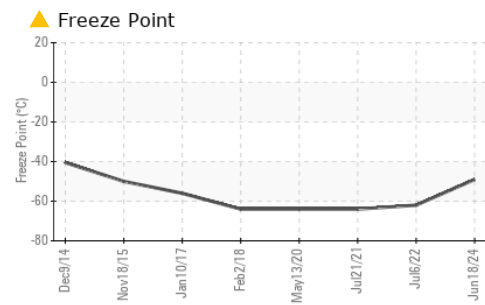
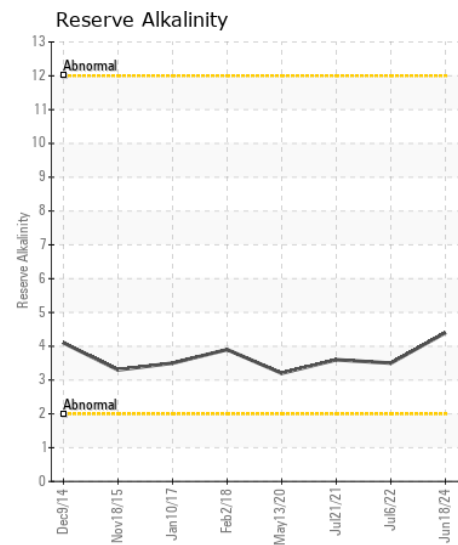
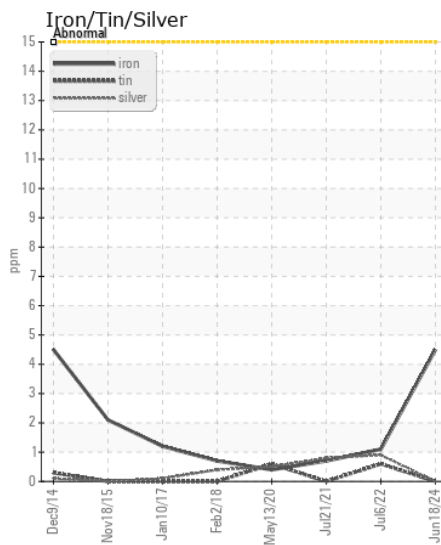
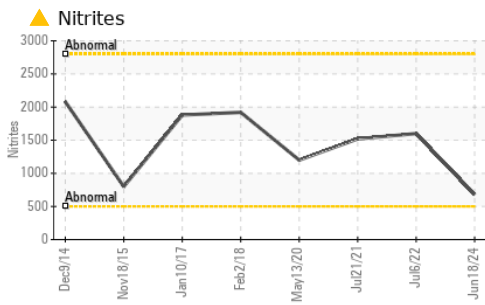
There is no indication of any contamination in the coolant.

Calcium	ppm	ASTM D5185(m)	>100	2	4	4
Magnesium	ppm	ASTM D5185(m)	>40	1	1	2
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Coolant Appearance		Visual*	Clear	Clear	Clear	Clear

COOLANT CONDITION

The nitrite level is acceptable. The glycol level is too high which leads to over-heating and additive drop-out. The pH level of this fluid is within the acceptable limits. The reserve alkalinity of this fluid is acceptable.

Boiling Point	°C	WC Method*		122	---	---
Specific Gravity		ASTM D1298*		1.098	1.095	---
pH	Scale 0-14	ASTM D1287*	9.5	7.95	7.49	7.60
Nitrites	ppm	Alcan Test Kit*	500	680	1600	1520
Reserve Alkalinity	Scale 0-20	ASTM D1121*		4.4	3.5	3.6
Percentage Glycol	%	ASTM D3321*	50	▲ 78.1	▲ 75.2	---
Freezing Point	°C	ASTM D3321*	-40	▲ -49	▲ -62	-64
Carboxylate				---	---	---
Silicon	ppm	ASTM D5185(m)	150	180	127	119
Phosphorus	ppm	ASTM D5185(m)	0	9	4	5
Boron	ppm	ASTM D5185(m)	300	494	501	520
Molybdenum	ppm	ASTM D5185(m)		0	19	2
Sodium	ppm	ASTM D5185(m)		3986	2175	2074
Potassium	ppm	ASTM D5185(m)		93	81	90
Coolant Color		Visual*	Pink	Yellow	Orange	Yellow



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WA0020217 **Received** : 26 Jun 2024
Lab Number : 02644255 **Tested** : 26 Jun 2024
Unique Number : 5801794 **Diagnosed** : 27 Jun 2024 - Kevin Marson
Test Package : COOL (Additional Tests: GlycolType)

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.

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