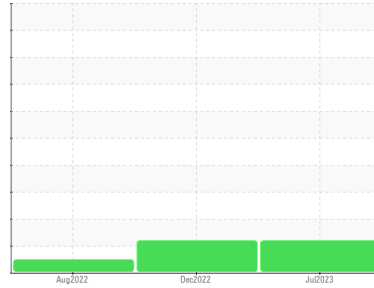


OIL ANALYSIS REPORT

Sample Rating Trend

FUEL


Machine Id
1RW9460RECP002291
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON HP 15W40 (--- QTS)

DIAGNOSIS
▲ Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time. Please specify the component make and model with your next sample.

Wear

All component wear rates are normal.

▲ Contamination

Light fuel dilution occurring. No other contaminants were detected in the oil.

▲ 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.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			PCA0081019	PCA0081085	PCA0053904
Sample Date	Client Info			28 Jul 2023	19 Dec 2022	23 Aug 2022
Machine Age	hrs	Client Info		13423	13165	12912
Oil Age	hrs	Client Info		258	253	280
Oil Changed	Client Info			Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Glycol	WC Method			NEG	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	17	15	13
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	1	0
Aluminum	ppm	ASTM D5185m	>20	2	3	2
Lead	ppm	ASTM D5185m	>40	2	3	2
Copper	ppm	ASTM D5185m	>330	14	8	13
Tin	ppm	ASTM D5185m	>15	1	1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0

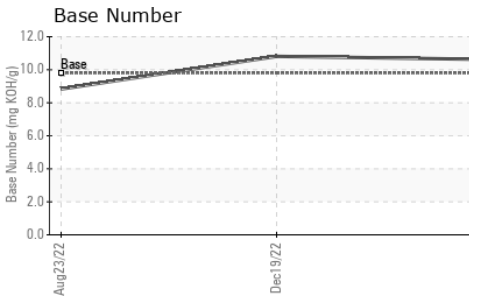
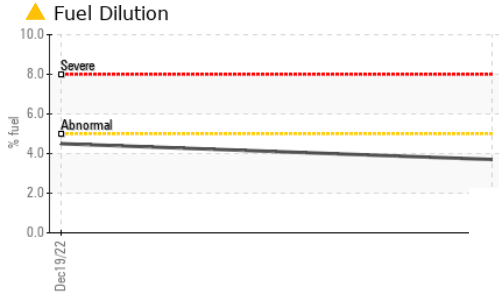
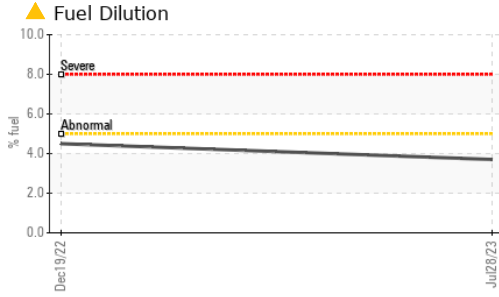
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		4	16	9
Barium	ppm	ASTM D5185m		0	0	<1
Molybdenum	ppm	ASTM D5185m		65	58	64
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		1029	864	842
Calcium	ppm	ASTM D5185m		1143	1040	1048
Phosphorus	ppm	ASTM D5185m		1124	948	959
Zinc	ppm	ASTM D5185m		1358	1130	1136
Sulfur	ppm	ASTM D5185m		3964	2743	2837

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	6	6
Sodium	ppm	ASTM D5185m		3	1	3
Potassium	ppm	ASTM D5185m	>20	<1	1	0
Fuel	%	ASTM D3524	>5	▲ 3.7	▲ 4.5	<1.0

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.5	0.7
Nitration	Abs/cm	*ASTM D7624	>20	6.9	7.6	7.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.3	19.2	22.1

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.6	15.2	17.2
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	10.62	10.81	8.83

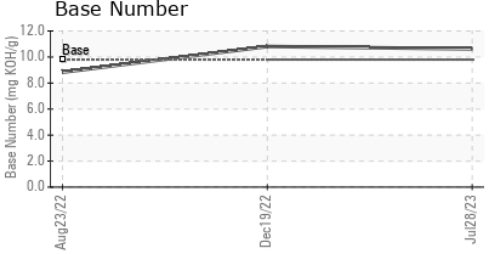
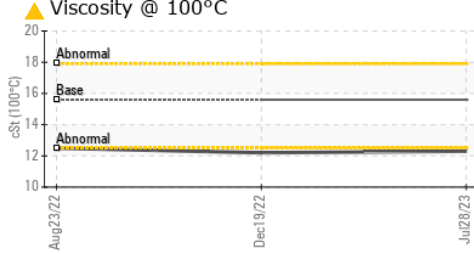
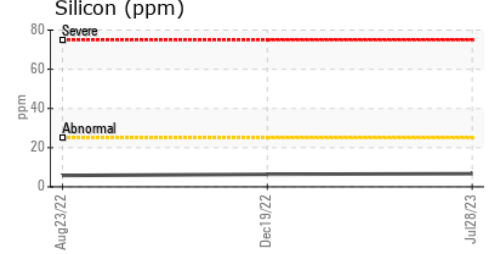
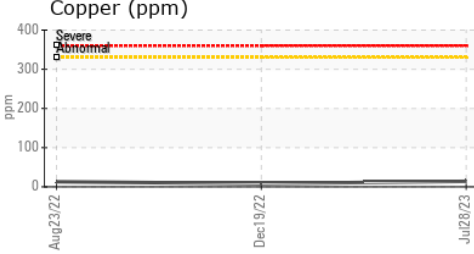
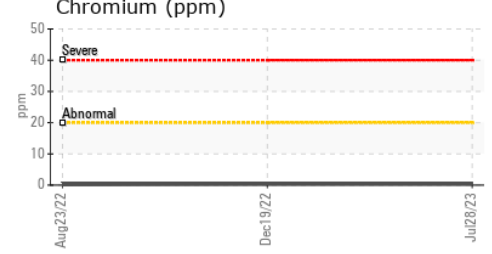
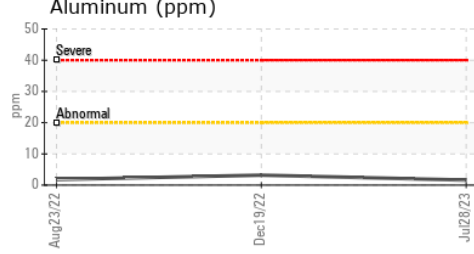
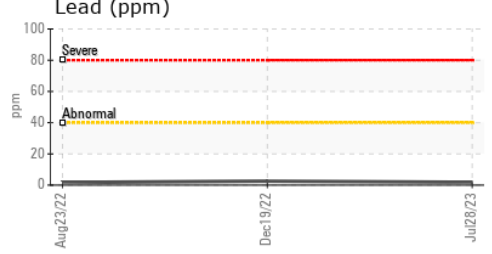
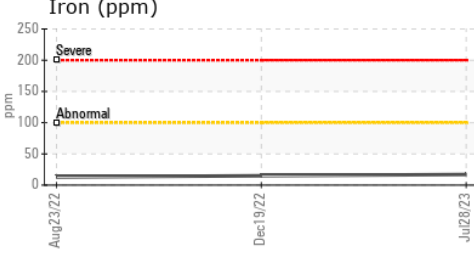
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	15.6	▲ 12.3	▲ 12.2	12.5

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0081019 **Received** : 14 Aug 2023
Lab Number : 05923610 **Diagnosed** : 16 Aug 2023
Unique Number : 10603557 **Diagnostician** : Wes Davis
Test Package : MOB 2 (Additional Tests: PercentFuel)

VEENSTRA FARMING
 15861 SEXTON RD
 ESCALON, CA
 US 95320
 Contact: DEREK VEENSTRA
 KEREKVEENSTRA@AOL.COM
 T:
 F:

To discuss this sample report, contact Customer Service at 1-800-237-1369.
 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)