

OIL ANALYSIS REPORT

Sample Rating Trend







FLEET/Dillon Machine Id 2220631 (S/N U160929A)

Diesel Engine

PETRO CANADA DURON ADVANCED 10W30 (9 QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

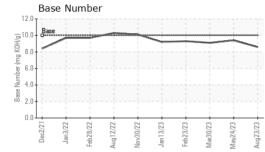
Fluid Condition

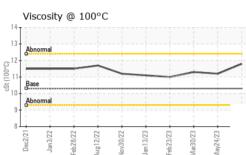
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0104882	PCA0098157	PCA0094880
Sample Date		Client Info		23 Aug 2023	24 May 2023	30 Mar 2023
Machine Age	hrs	Client Info		3679	3062	2861
Oil Age	hrs	Client Info		200	200	200
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	5	5	4
Chromium	ppm	ASTM D5185m	>20	<1	<1	0
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	0	0
Lead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m	>330	1	<1	0
Tin	ppm	ASTM D5185m	>15	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	nnm	ASTM D5185m		0	0	0
Caumum	ppm	AO I WI DO IOOIII		U	U	O
ADDITIVES	ррпі	method	limit/base	current	history1	history2
	ррт		limit/base			
ADDITIVES		method		current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185m	0	current 2	history1	history2
ADDITIVES Boron Barium	ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	0	current 2 0	history1 9 0	history2 9
ADDITIVES Boron Barium Molybdenum	ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60	current 2 0 60	history1 9 0 63	history2 9 0 63
ADDITIVES Boron Barium Molybdenum Manganese	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60 0	current 2 0 60 <1	history1 9 0 63	history2 9 0 63 <1
ADDITIVES Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60 0 1010	current 2 0 60 <1 970	history1 9 0 63 0 855	history2 9 0 63 <1 897
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	method ASTM D5185m	0 0 60 0 1010 1070	current 2 0 60 <1 970 1091	history1 9 0 63 0 855 1131	history2 9 0 63 <1 897 1096
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	method ASTM D5185m	0 0 60 0 1010 1070 1150	current 2 0 60 <1 970 1091 1084	history1 9 0 63 0 855 1131 1048	history2 9 0 63 <1 897 1096 977
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	0 0 60 0 1010 1070 1150 1270	current 2 0 60 <1 970 1091 1084 1335	history1 9 0 63 0 855 1131 1048 1218	history2 9 0 63 <1 897 1096 977 1252
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	0 0 60 0 1010 1070 1150 1270 2060	current 2 0 60 <1 970 1091 1084 1335 3973	history1 9 0 63 0 855 1131 1048 1218 3208	history2 9 0 63 <1 897 1096 977 1252 3447
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	0 0 60 0 1010 1070 1150 1270 2060	current 2 0 60 <1 970 1091 1084 1335 3973 current	history1 9 0 63 0 855 1131 1048 1218 3208 history1	history2 9 0 63 <1 897 1096 977 1252 3447 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	0 0 60 0 1010 1070 1150 1270 2060 limit/base	current 2 0 60 <1 970 1091 1084 1335 3973 current 3	history1 9 0 63 0 855 1131 1048 1218 3208 history1	history2 9 0 63 <1 897 1096 977 1252 3447 history2 4
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	0 0 60 0 1010 1070 1150 1270 2060 limit/base	current 2 0 60 <1 970 1091 1084 1335 3973 current 3 <1	history1 9 0 63 0 855 1131 1048 1218 3208 history1 3 0	history2 9 0 63 <1 897 1096 977 1252 3447 history2 4 <1
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	0 0 60 0 1010 1070 1150 1270 2060 limit/base >25	current 2 0 60 <1 970 1091 1084 1335 3973 current 3 <1 1	history1 9 0 63 0 855 1131 1048 1218 3208 history1 3 0 2	history2 9 0 63 <1 897 1096 977 1252 3447 history2 4 <1 1
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	0 0 60 0 1010 1070 1150 1270 2060 limit/base >25 >20 limit/base	current 2 0 60 <1 970 1091 1084 1335 3973 current 3 <1 1 current	history1 9 0 63 0 855 1131 1048 1218 3208 history1 3 0 2	history2 9 0 63 <1 897 1096 977 1252 3447 history2 4 <1 1
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m method ASTM D5185m	0 0 60 0 1010 1070 1150 1270 2060 limit/base >25 >20 limit/base	current 2 0 60 <1 970 1091 1084 1335 3973 current 3 <1 1 current 0.1	history1 9 0 63 0 855 1131 1048 1218 3208 history1 3 0 2 history1 0.1	history2 9 0 63 <1 897 1096 977 1252 3447 history2 4 <1 1 history2 0.1
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m method ASTM D5185m	0 0 60 0 1010 1070 1150 1270 2060 limit/base >25 >20	current 2 0 60 <1 970 1091 1084 1335 3973 current 3 <1 1 current 0.1 5.6	history1 9 0 63 0 855 1131 1048 1218 3208 history1 3 0 2 history1 0.1 5.9	history2 9 0 63 <1 897 1096 977 1252 3447 history2 4 <1 1 history2 0.1 5.8
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m method *ASTM D5185m ASTM D7844 *ASTM D7624 *ASTM D7415	0 0 0 0 1010 1070 1150 1270 2060 limit/base >25 >20 limit/base >3 >20 >30	current 2 0 60 <1 970 1091 1084 1335 3973 current 3 <1 1 current 0.1 5.6 16.9	history1 9 0 63 0 855 1131 1048 1218 3208 history1 3 0 2 history1 0.1 5.9 17.6	history2 9 0 63 <1 897 1096 977 1252 3447 history2 4 <1 1 history2 0.1 5.8 17.3



OIL ANALYSIS REPORT

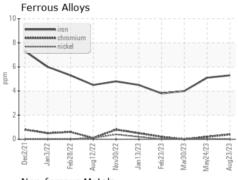




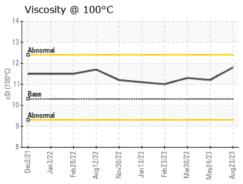
VISUAL		method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual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

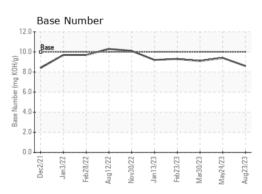
FLUID PROPE	ERITES	method	ilmivbase		nistory i	nistoryz
Visc @ 100°C	cSt	ASTM D445	10.3	11.8	11.2	11.3

GRAPHS



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Laboratory Sample No. Lab Number

Unique Number : 10629280

: PCA0104882 : 05938668

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 30 Aug 2023 Diagnosed : 31 Aug 2023

Diagnostician : Wes Davis

Test Package : FLEET Certificate L2367 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.

PERDUE FARMS - DILLON

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Submitted By: KEVIN HOOKS

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Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)