



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
2227113
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PCA0099536	PCA0118403	PCA0106368
Sample Date		Client Info		28 Apr 2024	17 Feb 2024	17 Dec 2023
Machine Age	mls	Client Info		75000	0	40000
Oil Age	mls	Client Info		15000	20000	15000
Filter Age	mls	Client Info		15000	20000	15000
Oil Changed		Client Info		Changed	Not Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	21	21	29
Chromium	ppm	ASTM D5185m	>20	<1	0	<1
Nickel	ppm	ASTM D5185m	>4	5	<1	8
Titanium	ppm	ASTM D5185m		10	1	<1
Silver	ppm	ASTM D5185m	>3	<1	0	6
Aluminum	ppm	ASTM D5185m	>20	5	2	12
Lead	ppm	ASTM D5185m	>40	<1	<1	3
Copper	ppm	ASTM D5185m	>330	90	5	420
Tin	ppm	ASTM D5185m	>15	1	1	2
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

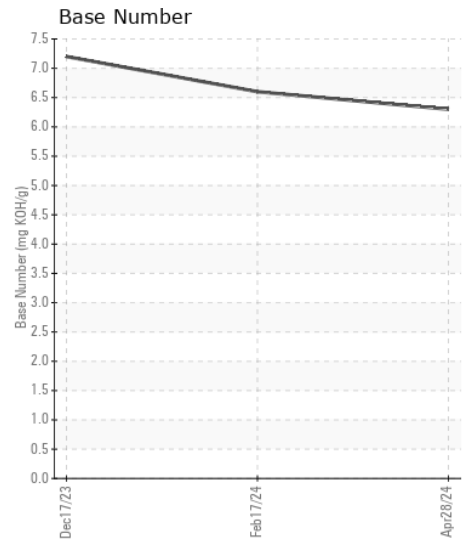
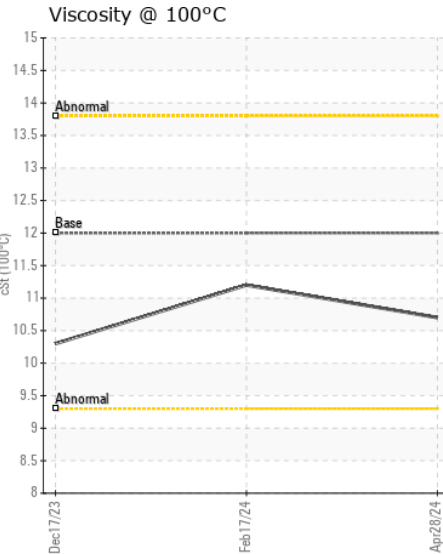
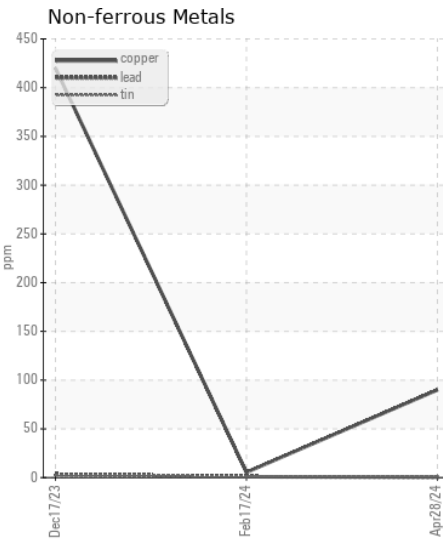
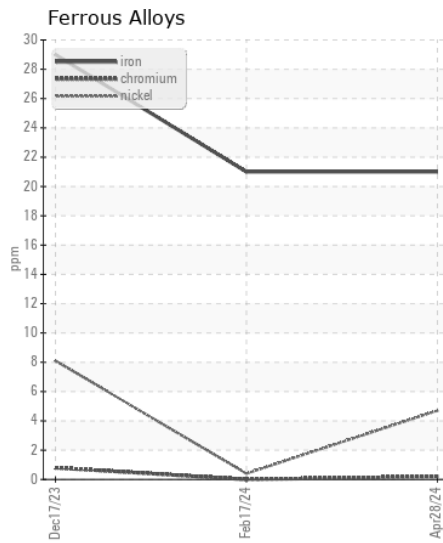
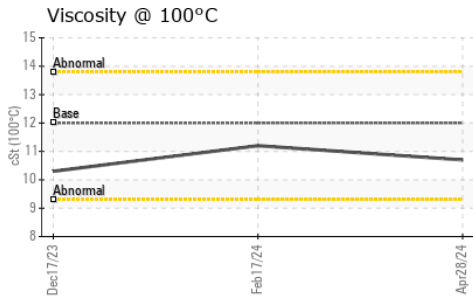
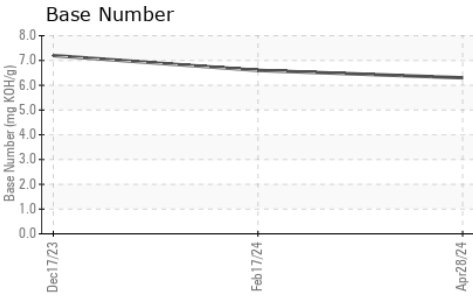
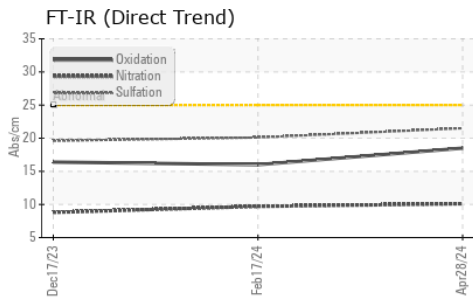
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	8	4	17
Potassium	ppm	ASTM D5185m	>20	12	4	29
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.3	0.4	0.2
Nitration	Abs/cm	*ASTM D7624	>20	10.1	9.7	8.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.5	20.1	19.6
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

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.

Sodium	ppm	ASTM D5185m		2	2	3
Boron	ppm	ASTM D5185m	2	10	2	12
Barium	ppm	ASTM D5185m	0	0	0	<1
Molybdenum	ppm	ASTM D5185m	50	43	54	67
Manganese	ppm	ASTM D5185m	0	<1	<1	1
Magnesium	ppm	ASTM D5185m	950	633	827	893
Calcium	ppm	ASTM D5185m	1050	1556	1005	1155
Phosphorus	ppm	ASTM D5185m	995	891	917	969
Zinc	ppm	ASTM D5185m	1180	1079	1113	1158
Sulfur	ppm	ASTM D5185m	2600	2910	2685	2624
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.5	16.0	16.4
Base Number (BN)	mg KOH/g	ASTM D2896		6.3	6.6	7.2
Visc @ 100°C	cSt	ASTM D445	12.00	10.7	11.2	10.3



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0099536
Lab Number : 06175297
Unique Number : 11021350
Test Package : FLEET

Received : 10 May 2024
Tested : 13 May 2024
Diagnosed : 13 May 2024 - Don Baldrige

PERDUE FARMS - SALISBURY
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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)