



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
2126911
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PCA0114803	PCA0106356	PCA0088715
Sample Date		Client Info		28 Jan 2024	13 Nov 2023	28 Jul 2023
Machine Age	mls	Client Info		101701	81641	40000
Oil Age	mls	Client Info		40000	20000	40000
Filter Age	mls	Client Info		20000	20000	40000
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		Changed	Not Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	38	17	26
Chromium	ppm	ASTM D5185m	>20	1	<1	<1
Nickel	ppm	ASTM D5185m	>4	3	<1	2
Titanium	ppm	ASTM D5185m		2	<1	2
Silver	ppm	ASTM D5185m	>3	<1	0	1
Aluminum	ppm	ASTM D5185m	>20	10	8	25
Lead	ppm	ASTM D5185m	>40	4	2	2
Copper	ppm	ASTM D5185m	>330	88	92	267
Tin	ppm	ASTM D5185m	>15	3	2	3
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

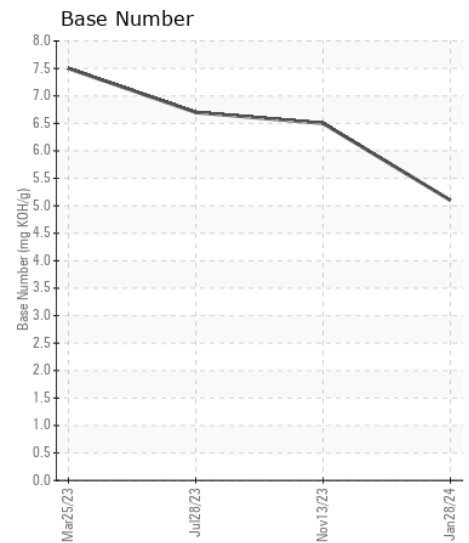
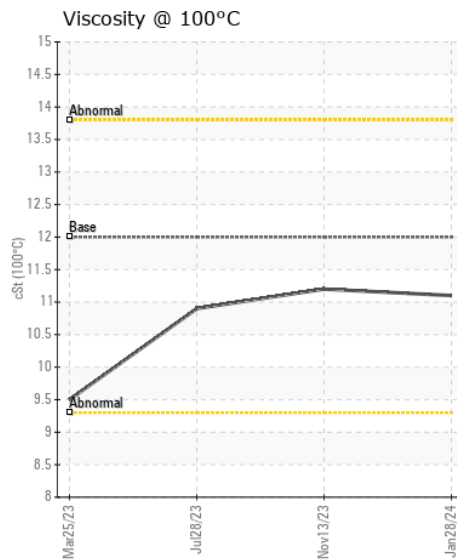
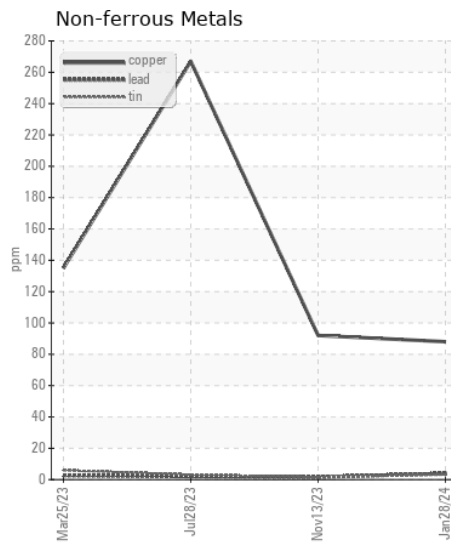
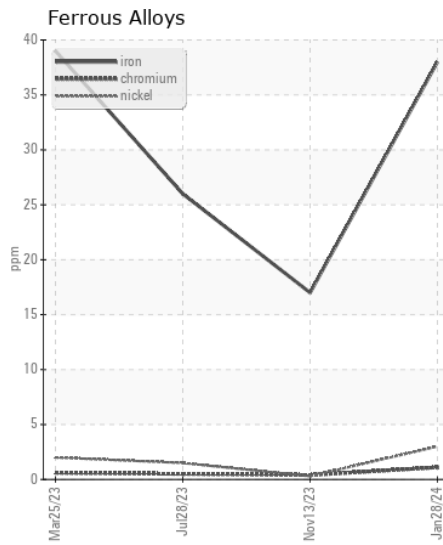
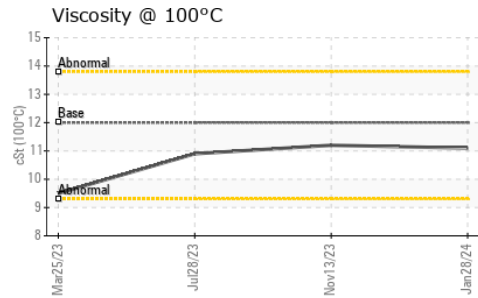
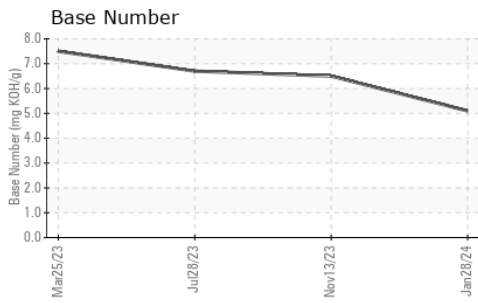
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	8	5	9
Potassium	ppm	ASTM D5185m	>20	28	22	74
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	0.6	0.4	0.5
Nitration	Abs/cm	*ASTM D7624	>20	11.7	9.4	9.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.5	20.7	19.7
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		0	3	0
Boron	ppm	ASTM D5185m	2	0	<1	4
Barium	ppm	ASTM D5185m	0	13	0	0
Molybdenum	ppm	ASTM D5185m	50	63	58	65
Manganese	ppm	ASTM D5185m	0	2	<1	1
Magnesium	ppm	ASTM D5185m	950	888	846	846
Calcium	ppm	ASTM D5185m	1050	1086	1090	1161
Phosphorus	ppm	ASTM D5185m	995	911	820	963
Zinc	ppm	ASTM D5185m	1180	1162	1070	1151
Sulfur	ppm	ASTM D5185m	2600	2629	2422	2577
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.4	16.6	15.3
Base Number (BN)	mg KOH/g	ASTM D2896		5.1	6.5	6.7
Visc @ 100°C	cSt	ASTM D445	12.00	11.1	11.2	10.9



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : PCA0114803

Lab Number : 06085724

Unique Number : 10873169

Test Package : FLEET

Received : 12 Feb 2024

Tested : 12 Feb 2024

Diagnosed : 12 Feb 2024 - Wes Davis

PERDUE FARMS - SALISBURY

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SALISBURY, MD

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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)