



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
26629

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		PCA0118438	PCA0076960	PCA0079855
Sample Date		Client Info		30 Jan 2024	12 May 2023	15 Sep 2022
Machine Age	mls	Client Info		0	382475	321277
Oil Age	mls	Client Info		0	60000	20000
Filter Age	mls	Client Info		0	60000	20000
Oil Changed		Client Info		N/A	Changed	Not Changed
Filter Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	60	80	10
Chromium	ppm	ASTM D5185m	>20	1	2	<1
Nickel	ppm	ASTM D5185m	>4	1	1	0
Titanium	ppm	ASTM D5185m		2	6	6
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	2	3	1
Lead	ppm	ASTM D5185m	>40	4	7	1
Copper	ppm	ASTM D5185m	>330	8	12	2
Tin	ppm	ASTM D5185m	>15	2	2	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

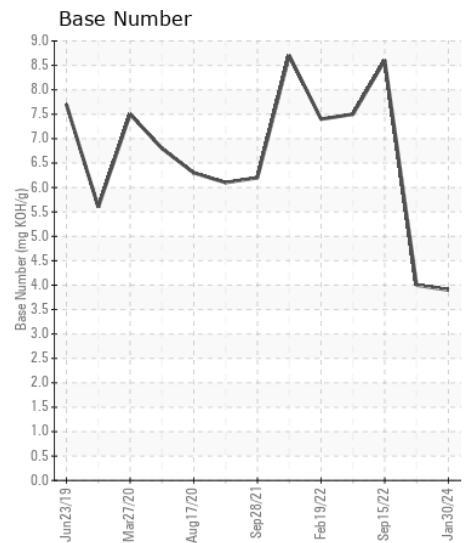
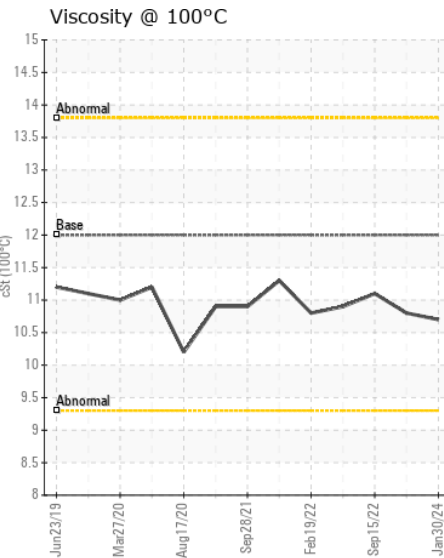
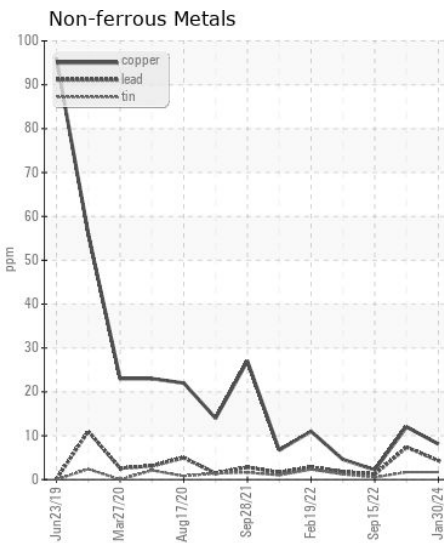
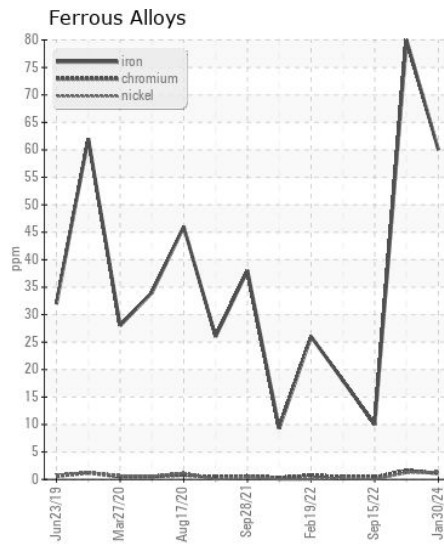
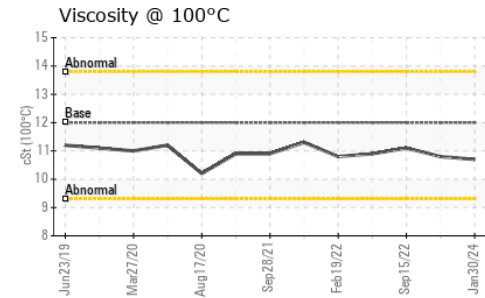
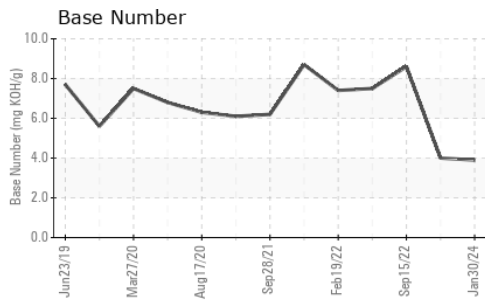
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	7	7	3
Potassium	ppm	ASTM D5185m	>20	4	4	2
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	1	1.4	0.4
Nitration	Abs/cm	*ASTM D7624	>20	10.9	13.5	8.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.3	27.9	20.5
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		11	28	6
Boron	ppm	ASTM D5185m	2	0	<1	6
Barium	ppm	ASTM D5185m	0	13	0	0
Molybdenum	ppm	ASTM D5185m	50	60	56	51
Manganese	ppm	ASTM D5185m	0	1	1	<1
Magnesium	ppm	ASTM D5185m	950	871	927	832
Calcium	ppm	ASTM D5185m	1050	1053	1179	1117
Phosphorus	ppm	ASTM D5185m	995	957	981	957
Zinc	ppm	ASTM D5185m	1180	1171	1276	1182
Sulfur	ppm	ASTM D5185m	2600	2729	3055	3516
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.7	24.5	15.9
Base Number (BN)	mg KOH/g	ASTM D2896		3.9	4.0	8.6
Visc @ 100°C	cSt	ASTM D445	12.00	10.7	10.8	11.1



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0118438
Lab Number : 06085723
Unique Number : 10873168
Test Package : FLEET

Received : 12 Feb 2024
Tested : 12 Feb 2024
Diagnosed : 12 Feb 2024 - Wes Davis

PERDUE FARMS - SALISBURY
 7036 ZION CHURCH ROAD
 SALISBURY, MD
 US 21802

Contact: RICHARD O'NEAL
 richard.oneal@perdue.com

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)

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