



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
2026854
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON UHP 5W30 (--- 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		PCA0128352	PCA0119526	PCA0114136
Sample Date		Client Info		11 Jun 2024	21 Mar 2024	09 Dec 2023
Machine Age	mls	Client Info		266251	0	227652
Oil Age	mls	Client Info		19993	0	0
Filter Age	mls	Client Info		19993	0	0
Oil Changed		Client Info		Not Chngd	Changed	Not Chngd
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	18	48	29
Chromium	ppm	ASTM D5185m	>20	<1	1	<1
Nickel	ppm	ASTM D5185m	>4	1	2	<1
Titanium	ppm	ASTM D5185m		35	8	2
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	3	6	4
Lead	ppm	ASTM D5185m	>40	0	1	1
Copper	ppm	ASTM D5185m	>330	5	10	8
Tin	ppm	ASTM D5185m	>15	0	<1	1
Vanadium	ppm	ASTM D5185m		<1	<1	<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.

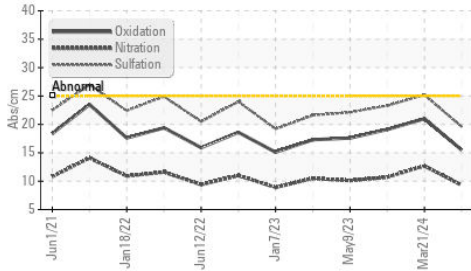
Silicon	ppm	ASTM D5185m	>25	5	6	5
Potassium	ppm	ASTM D5185m	>20	4	9	9
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.4	0.8	0.5
Nitration	Abs/cm	*ASTM D7624	>20	9.3	12.7	10.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.6	25.2	23.3
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

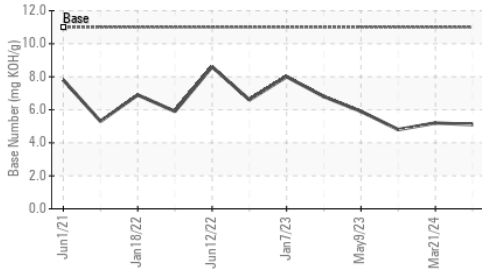
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		2	4	2
Boron	ppm	ASTM D5185m	0	19	5	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	64	36	57	61
Manganese	ppm	ASTM D5185m	0	<1	1	<1
Magnesium	ppm	ASTM D5185m	1160	776	953	927
Calcium	ppm	ASTM D5185m	820	1421	1236	1107
Phosphorus	ppm	ASTM D5185m	1160	1094	1031	938
Zinc	ppm	ASTM D5185m	1260	1299	1313	1219
Sulfur	ppm	ASTM D5185m	3000	4156	3546	3265
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.5	21.0	19.1
Base Number (BN)	mg KOH/g	ASTM D2896	11.0	5.1	5.2	4.8
Visc @ 100°C	cSt	ASTM D445	11.9	11.1	11.1	11.1

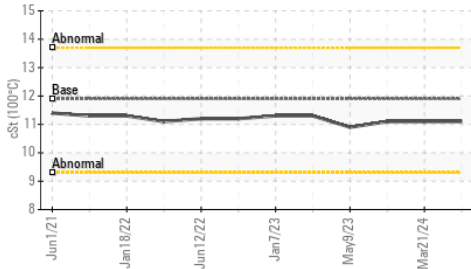
FT-IR (Direct Trend)



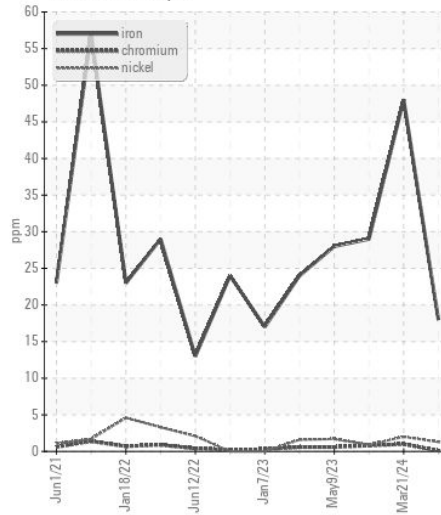
Base Number



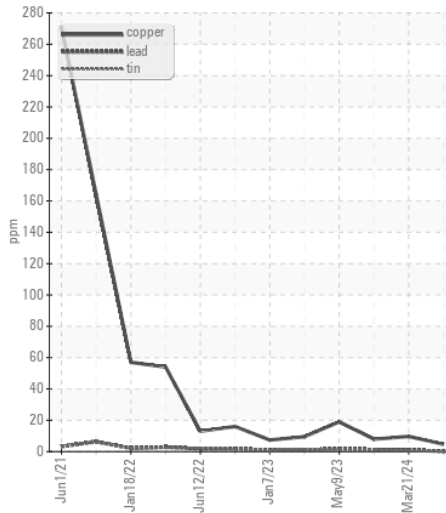
Viscosity @ 100°C



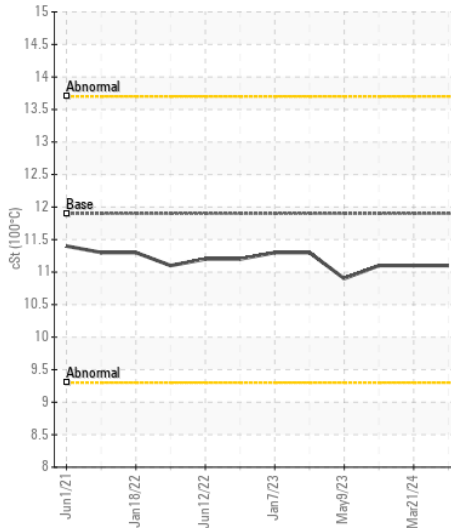
Ferrous Alloys



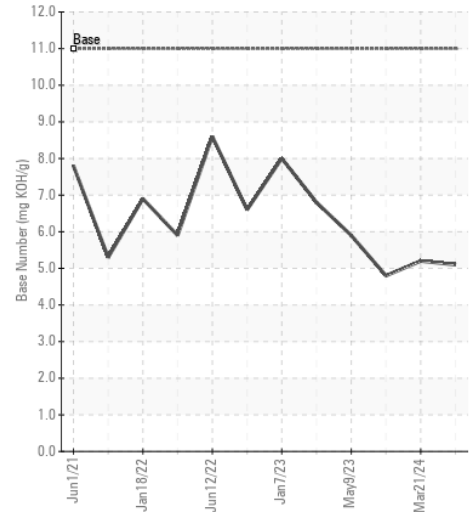
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

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

Sample No. : PCA0128352

Lab Number : 06219412

Unique Number : 11097609

Test Package : FLEET

Received : 25 Jun 2024

Tested : 25 Jun 2024

Diagnosed : 25 Jun 2024 - Wes Davis

PERDUE FARMS - GEORGETOWN

20621 SAVANAH RD

GEORGETOWN, DE

US 19947

Contact: ROBERT LOCKWOOD

Robert.Lockwood@Perdue.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)