



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

FLEET

Machine Id

2126984 (S/N 4V4NC9EH4NPN608637)

Component

Diesel Engine

Fluid

PETRO CANADA DURON SHP 10W30 (--- GAL)

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		PCA0124518	PCA0119921	PCA0108205
Sample Date		Client Info		20 Jun 2024	18 Apr 2024	13 Dec 2023
Machine Age	mls	Client Info		138210	118800	79783
Oil Age	mls	Client Info		39246	28984	19914
Filter Age	mls	Client Info		39246	28984	19914
Oil Changed		Client Info		Changed	Not Changed	Not 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	34	22	20
Chromium	ppm	ASTM D5185m	>20	1	<1	<1
Nickel	ppm	ASTM D5185m	>4	1	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	<1	<1	<1
Aluminum	ppm	ASTM D5185m	>20	5	4	9
Lead	ppm	ASTM D5185m	>40	3	2	2
Copper	ppm	ASTM D5185m	>330	31	27	63
Tin	ppm	ASTM D5185m	>15	2	2	2
Vanadium	ppm	ASTM D5185m		<1	<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.

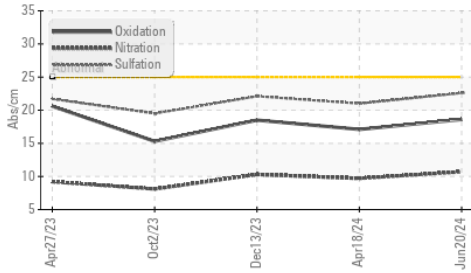
Silicon	ppm	ASTM D5185m	>25	6	5	7
Potassium	ppm	ASTM D5185m	>20	13	11	25
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.6	0.5	0.5
Nitration	Abs/cm	*ASTM D7624	>20	10.7	9.7	10.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.6	21.0	22.1
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

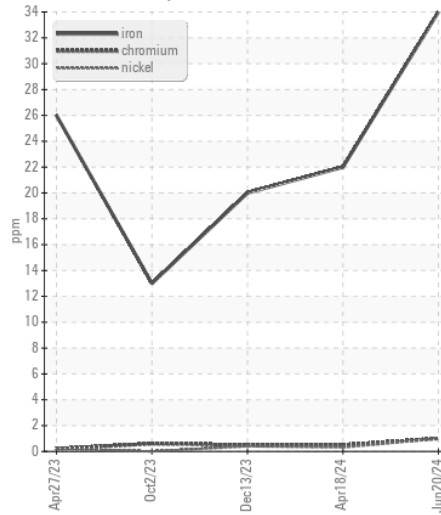
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		2	2	2
Boron	ppm	ASTM D5185m	2	<1	0	1
Barium	ppm	ASTM D5185m	0	1	0	<1
Molybdenum	ppm	ASTM D5185m	50	72	60	63
Manganese	ppm	ASTM D5185m	0	1	<1	<1
Magnesium	ppm	ASTM D5185m	950	1107	963	943
Calcium	ppm	ASTM D5185m	1050	1263	1083	1070
Phosphorus	ppm	ASTM D5185m	995	1064	1021	951
Zinc	ppm	ASTM D5185m	1180	1473	1270	1244
Sulfur	ppm	ASTM D5185m	2600	3132	2869	2370
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.6	17.1	18.5
Base Number (BN)	mg KOH/g	ASTM D2896		6.0	7.0	6.0
Visc @ 100°C	cSt	ASTM D445	12.00	11.3	11.2	11.2

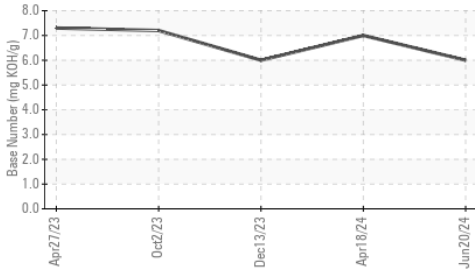
FT-IR (Direct Trend)



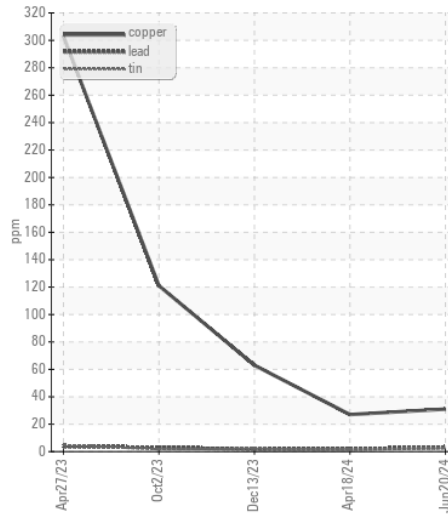
Ferrous Alloys



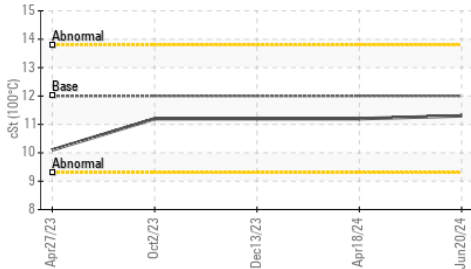
Base Number



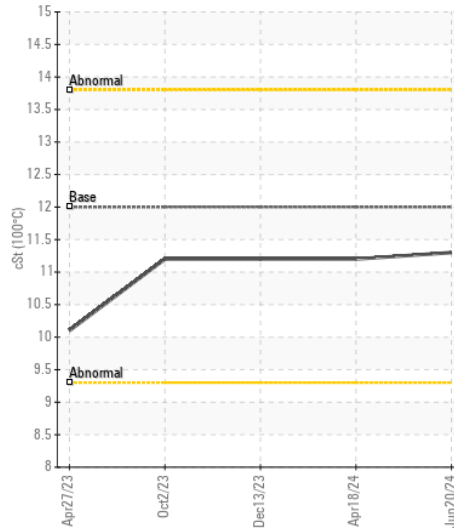
Non-ferrous Metals



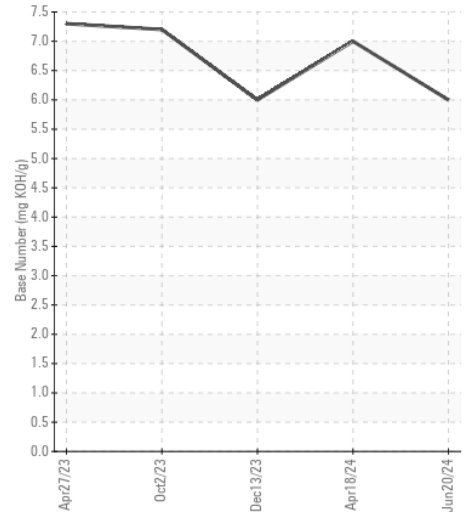
Viscosity @ 100°C



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0124518 **Received** : 25 Jun 2024
Lab Number : 06219471 **Tested** : 26 Jun 2024
Unique Number : 11097668 **Diagnosed** : 26 Jun 2024 - Wes Davis
Test Package : FLEET

PERDUE FARMS - ACCOMAC
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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)