



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
2227054
 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		PCA0124254	PCA0118392	PCA0088741
Sample Date		Client Info		11 May 2024	08 Feb 2024	17 Sep 2023
Machine Age	mls	Client Info		71000	20000	20000
Oil Age	mls	Client Info		20000	20000	20000
Filter Age	mls	Client Info		20000	20000	20000
Oil Changed		Client Info		Not Chngd	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	ABNORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>100	28	49	38
Chromium	ppm	ASTM D5185m	>20	<1	1	<1
Nickel	ppm	ASTM D5185m	>4	9	▲ 22	1
Titanium	ppm	ASTM D5185m		22	<1	<1
Silver	ppm	ASTM D5185m	>3	2	1	17
Aluminum	ppm	ASTM D5185m	>20	8	17	37
Lead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm	ASTM D5185m	>330	103	101	33
Tin	ppm	ASTM D5185m	>15	2	3	4
Vanadium	ppm	ASTM D5185m		<1	0	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.

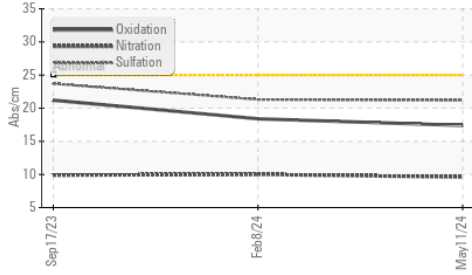
Silicon	ppm	ASTM D5185m	>25	9	15	▲ 56
Potassium	ppm	ASTM D5185m	>20	19	48	107
Fuel		WC Method	>5	<1.0	<1.0	0.2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.3	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	9.6	10.0	9.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.2	21.3	23.7
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

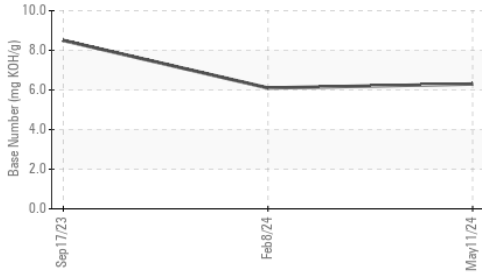
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		3	4	5
Boron	ppm	ASTM D5185m	2	12	11	169
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	50	48	68	115
Manganese	ppm	ASTM D5185m	0	1	2	4
Magnesium	ppm	ASTM D5185m	950	847	884	676
Calcium	ppm	ASTM D5185m	1050	1307	1179	1488
Phosphorus	ppm	ASTM D5185m	995	939	953	685
Zinc	ppm	ASTM D5185m	1180	1233	1182	839
Sulfur	ppm	ASTM D5185m	2600	3092	2397	2307
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.4	18.4	21.2
Base Number (BN)	mg KOH/g	ASTM D2896		6.3	6.1	8.5
Visc @ 100°C	cSt	ASTM D445	12.00	10.6	10.4	9.2

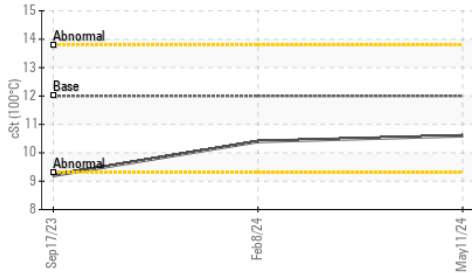
FT-IR (Direct Trend)



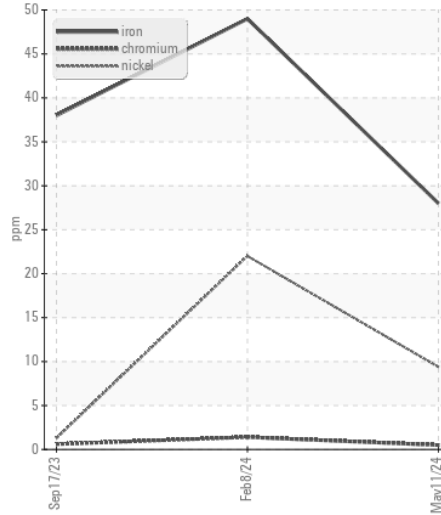
Base Number



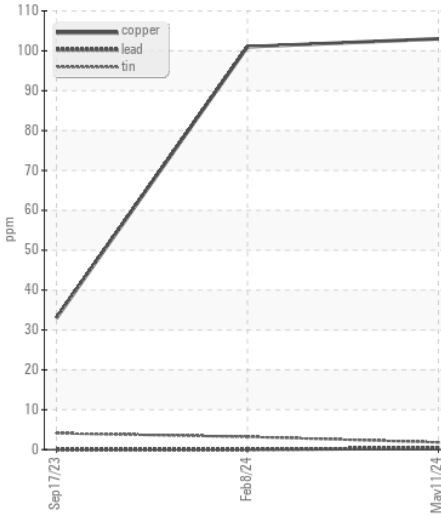
Viscosity @ 100°C



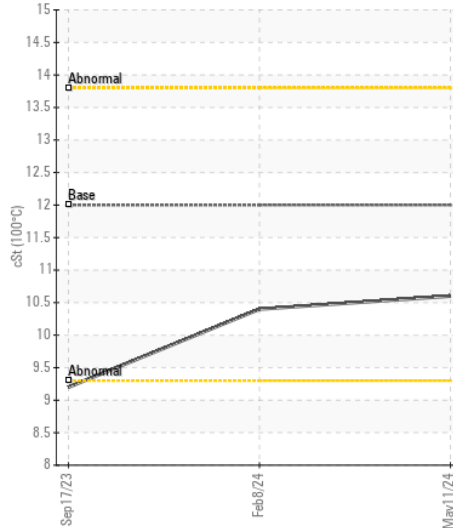
Ferrous Alloys



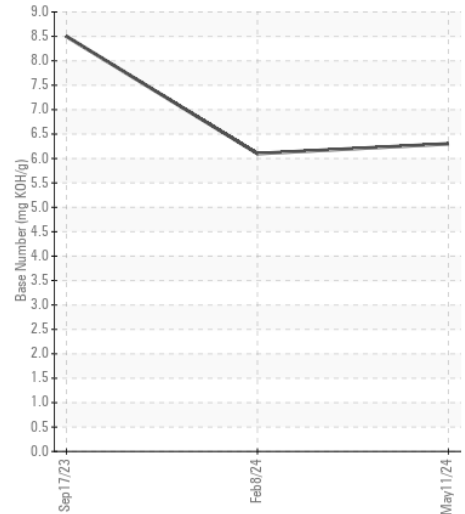
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

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

Sample No. : PCA0124254

Lab Number : 06188956

Unique Number : 11045708

Test Package : FLEET

Received : 23 May 2024

Tested : 24 May 2024

Diagnosed : 24 May 2024 - Wes Davis

PERDUE FARMS - SALISBURY

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SALISBURY, MD

US 21802

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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)