



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
2227122
 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		PCA0124283	PCA0106379	PCA0118428
Sample Date		Client Info		16 Jun 2024	28 Apr 2024	05 Mar 2024
Machine Age	mls	Client Info		0	72300	42719
Oil Age	mls	Client Info		0	40000	20000
Filter Age	mls	Client Info		0	20000	20000
Oil Changed		Client Info		N/A	Changed	Changed
Filter Changed		Client Info		N/A	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	21	43	20
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	2	1
Titanium	ppm	ASTM D5185m		16	18	15
Silver	ppm	ASTM D5185m	>3	<1	<1	2
Aluminum	ppm	ASTM D5185m	>20	8	16	12
Lead	ppm	ASTM D5185m	>40	0	<1	<1
Copper	ppm	ASTM D5185m	>330	76	246	190
Tin	ppm	ASTM D5185m	>15	1	2	2
Vanadium	ppm	ASTM D5185m		0	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.

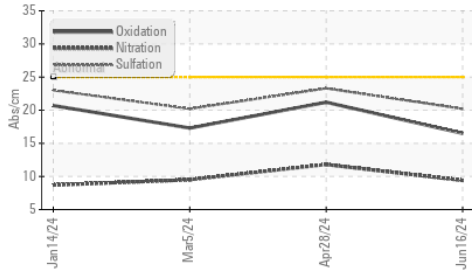
Silicon	ppm	ASTM D5185m	>25	9	14	13
Potassium	ppm	ASTM D5185m	>20	19	36	27
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.3	0.4	0.2
Nitration	Abs/cm	*ASTM D7624	>20	9.4	11.8	9.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.2	23.3	20.2
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

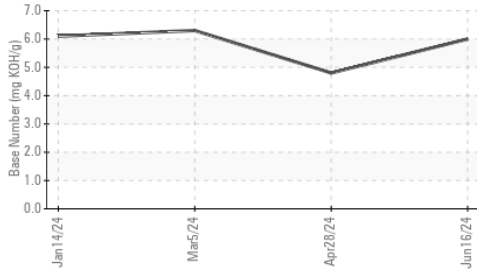
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		3	5	3
Boron	ppm	ASTM D5185m	2	5	7	21
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	50	57	56	56
Manganese	ppm	ASTM D5185m	0	0	2	1
Magnesium	ppm	ASTM D5185m	950	931	816	775
Calcium	ppm	ASTM D5185m	1050	1416	1356	1237
Phosphorus	ppm	ASTM D5185m	995	1006	997	964
Zinc	ppm	ASTM D5185m	1180	1405	1169	1143
Sulfur	ppm	ASTM D5185m	2600	2793	2669	3051
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.5	21.2	17.3
Base Number (BN)	mg KOH/g	ASTM D2896		6.0	4.8	6.3
Visc @ 100°C	cSt	ASTM D445	12.00	10.4	10.5	10.5

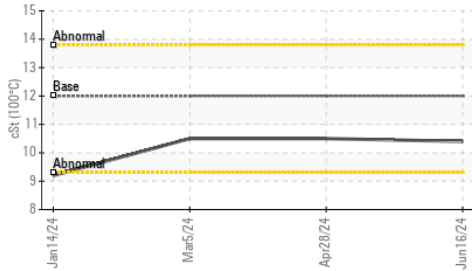
FT-IR (Direct Trend)



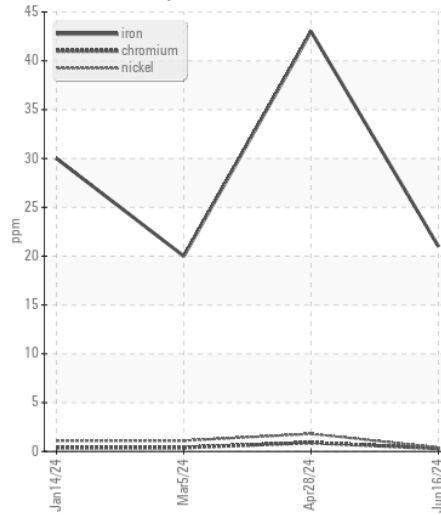
Base Number



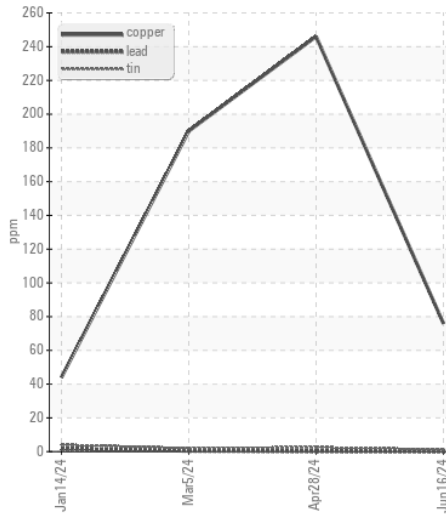
Viscosity @ 100°C



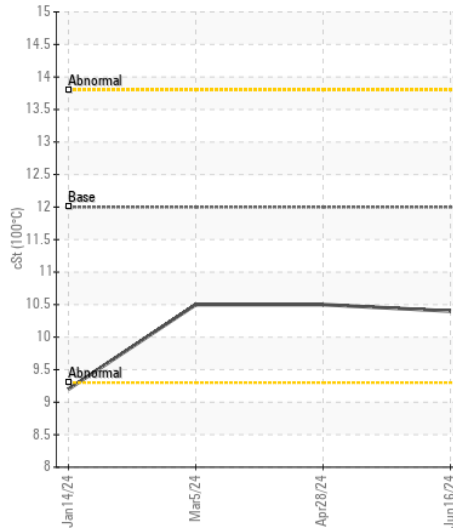
Ferrous Alloys



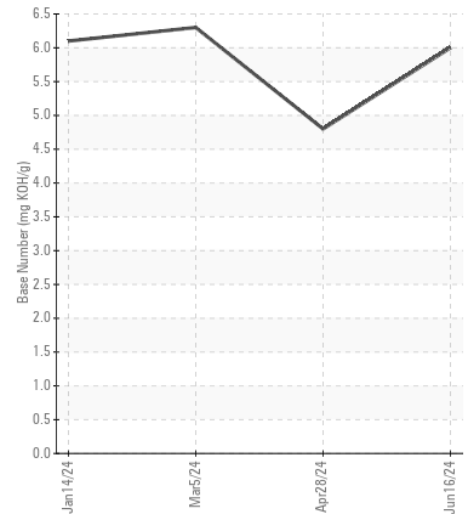
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0124283
Lab Number : 06220731
Unique Number : 11098928
Test Package : FLEET
Received : 26 Jun 2024
Tested : 27 Jun 2024
Diagnosed : 27 Jun 2024 - Wes Davis

PERDUE FARMS - SALISBURY
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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)