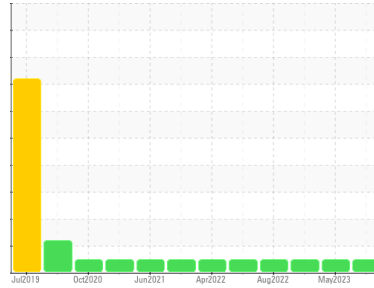


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
DT662

Component
Diesel Engine

Fluid
PETRO CANADA DURON SHP 10W30 (36 mls)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the oil.

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.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PCA0101817	PCA0095233	PCA0087538
Sample Date	Client Info	26 Oct 2023	09 May 2023	09 Dec 2022
Machine Age	mls	Client Info	47964	47964
Oil Age	mls	Client Info	47964	47964
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		NORMAL	NORMAL	NORMAL

CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >5	<1.0	<1.0	<1.0
Glycol	WC Method	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >110	15	9	4
Chromium	ppm ASTM D5185m >4	<1	<1	0
Nickel	ppm ASTM D5185m >2	0	<1	0
Titanium	ppm ASTM D5185m	0	0	0
Silver	ppm ASTM D5185m >2	0	0	2
Aluminum	ppm ASTM D5185m >25	3	4	3
Lead	ppm ASTM D5185m >45	0	<1	0
Copper	ppm ASTM D5185m >85	1	<1	<1
Tin	ppm ASTM D5185m >4	0	<1	0
Vanadium	ppm ASTM D5185m	0	0	<1
Cadmium	ppm ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 2	5	12	98
Barium	ppm ASTM D5185m 0	0	0	0
Molybdenum	ppm ASTM D5185m 50	68	68	65
Manganese	ppm ASTM D5185m 0	0	<1	<1
Magnesium	ppm ASTM D5185m 950	935	909	457
Calcium	ppm ASTM D5185m 1050	1157	1241	1749
Phosphorus	ppm ASTM D5185m 995	980	1048	1050
Zinc	ppm ASTM D5185m 1180	1292	1315	1247
Sulfur	ppm ASTM D5185m 2600	2994	3597	4159

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >30	6	5	3
Sodium	ppm ASTM D5185m	0	2	0
Potassium	ppm ASTM D5185m >20	6	4	5

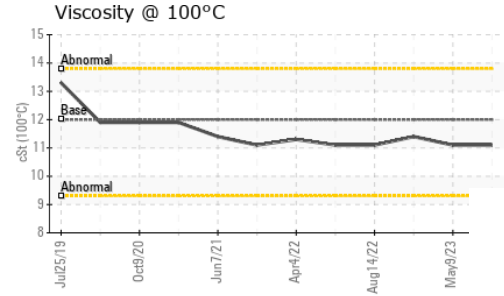
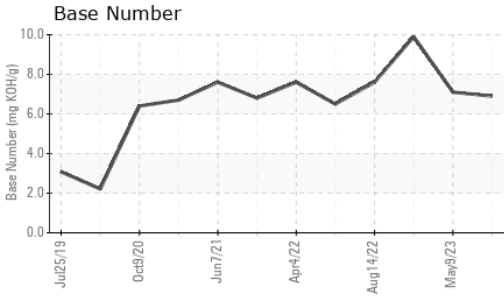
INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	0.5	0.4	0.2
Nitration	Abs/cm *ASTM D7624 >20	9.3	9.1	6.3
Sulfation	Abs/.1mm *ASTM D7415 >30	20.8	21.0	20.2

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	16.7	17.0	15.5
Base Number (BN)	mg KOH/g ASTM D2896	6.9	7.1	9.9

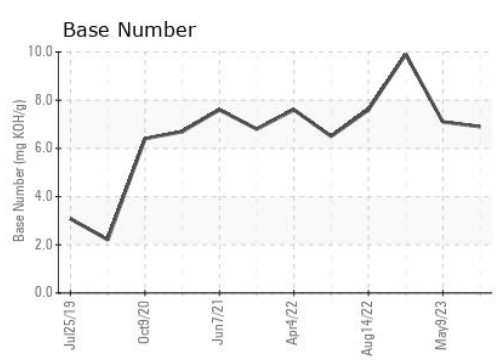
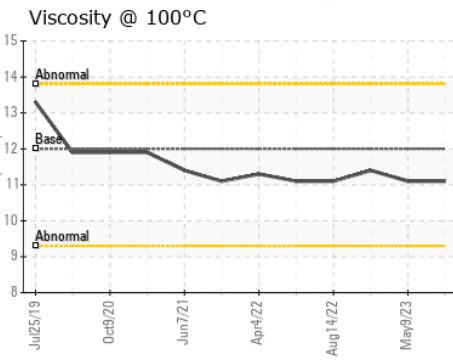
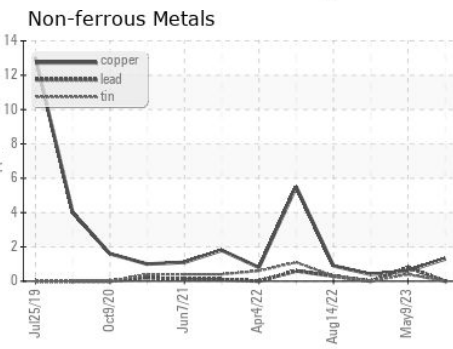
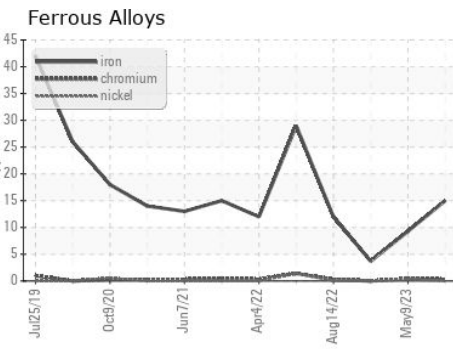
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.00	11.1	11.1

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0101817 **Received** : 08 Nov 2023
Lab Number : **06002157** **Diagnosed** : 09 Nov 2023
Unique Number : 10735919 **Diagnostician** : Wes Davis
Test Package : FLEET

NW WHITE & CO - BEAUFORT DIVISION
 1491 YENMASSEE HIGHWAY
 VARNVILLE, SC
 US 29944
 Contact: VINCENT BULLOCK
 bullockvince514@gmail.com
 T:
 F:

Certificate L2367
 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)