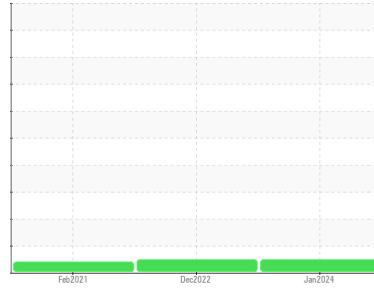


OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
DT746
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 10W30 (--- QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

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		PCA0089131	PCA0080425	PCA0036585
Sample Date	Client Info		05 Jan 2024	14 Dec 2022	12 Feb 2021
Machine Age	mls	Client Info	145041	103966	28425
Oil Age	mls	Client Info	41075	46282	0
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			NORMAL	NORMAL	ATTENTION

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<1.0	<1.0	0.4
Water	WC Method	>0.2	NEG	NEG	NEG
Glycol	WC Method		NEG	NEG	0.0

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >120	52	56	60
Chromium	ppm	ASTM D5185m >20	2	2	3
Nickel	ppm	ASTM D5185m >5	3	<1	6
Titanium	ppm	ASTM D5185m >2	0	0	<1
Silver	ppm	ASTM D5185m >2	0	0	<1
Aluminum	ppm	ASTM D5185m >20	11	6	24
Lead	ppm	ASTM D5185m >40	2	2	<1
Copper	ppm	ASTM D5185m >330	12	25	166
Tin	ppm	ASTM D5185m >15	2	2	3
Antimony	ppm	ASTM D5185m	---	---	0
Vanadium	ppm	ASTM D5185m	0	0	2
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	2	0	13
Barium	ppm	ASTM D5185m 0	0	2	0
Molybdenum	ppm	ASTM D5185m 50	66	61	39
Manganese	ppm	ASTM D5185m 0	<1	1	4
Magnesium	ppm	ASTM D5185m 950	975	903	593
Calcium	ppm	ASTM D5185m 1050	1101	1156	1689
Phosphorus	ppm	ASTM D5185m 995	1061	991	839
Zinc	ppm	ASTM D5185m 1180	1299	1219	1074
Sulfur	ppm	ASTM D5185m 2600	2679	2026	1782

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	9	6	35
Sodium	ppm	ASTM D5185m	4	4	5
Potassium	ppm	ASTM D5185m >20	19	19	138

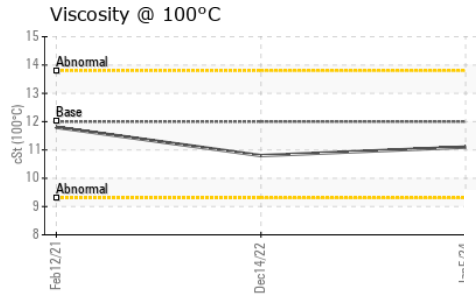
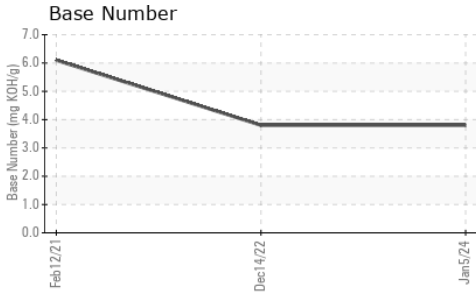
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >4	1	1	0.7
Nitration	Abs/cm	*ASTM D7624 >20	12.8	13.6	12.4
Sulfation	Abs/.1mm	*ASTM D7415 >30	25.4	26.2	25.8

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	22.2	24.0	25.5
Base Number (BN)	mg KOH/g	ASTM D2896	3.8	3.8	6.1

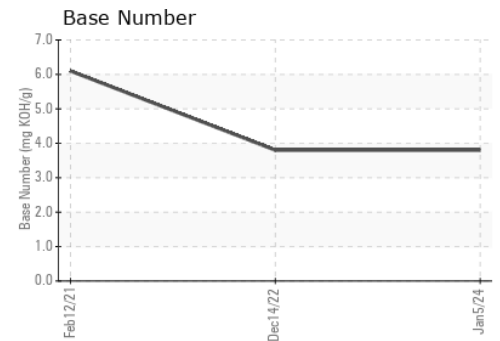
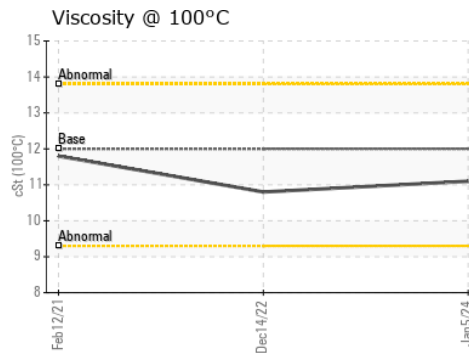
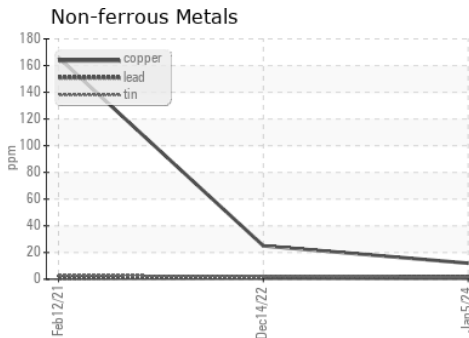
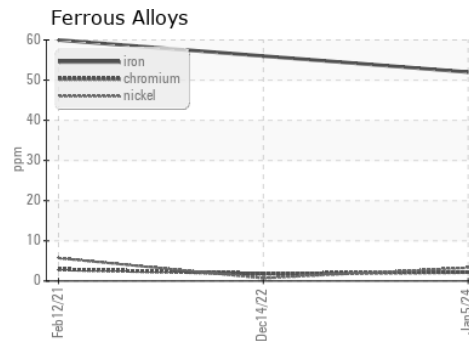
OIL ANALYSIS REPORT



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	10.8

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0089131
Lab Number : 06104809
Unique Number : 10903039
Test Package : FLEET

Received : 29 Feb 2024
Tested : 01 Mar 2024
Diagnosed : 04 Mar 2024 - Sean Felton

NW WHITE & CO - GREER DIVISION
 1060 ROGERS BRIDGE RD
 DUNCAN, SC
 US 29334
 Contact: Matt Quinlan
 mquinlan@nwwhite.com
 T: (864)905-8506
 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)