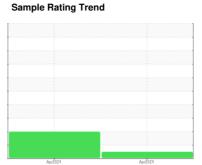


OIL ANALYSIS REPORT









Machine Id 714012 Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the

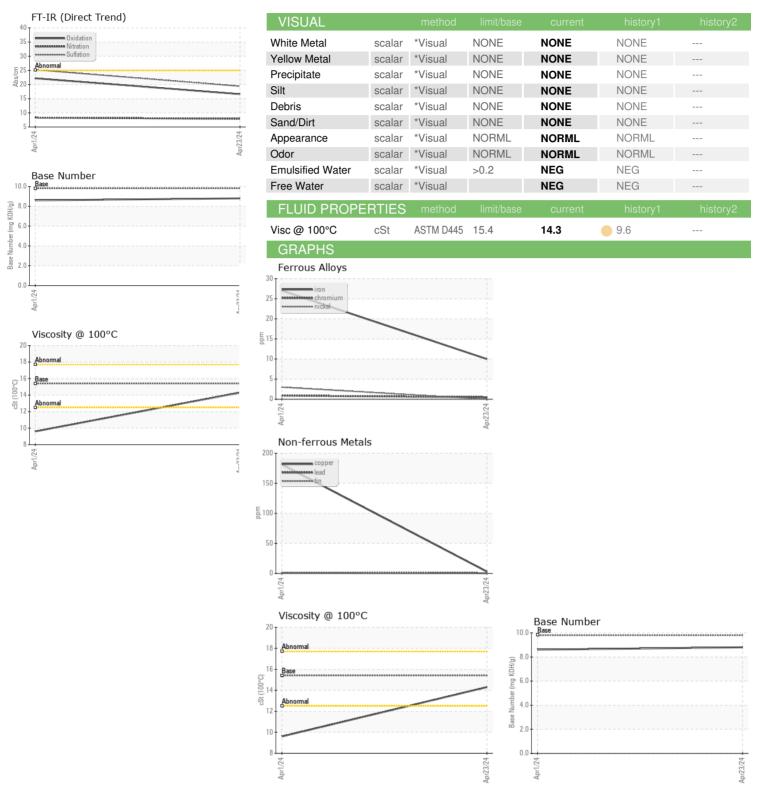
Fluid Condition

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 lin Sample Number Client Info Sample Date Client Info	nit/base current history1 history2
Sample Date Client Info	GFL0117606 GFL0117632
	23 Apr 2024 01 Apr 2024
Machine Age hrs Client Info	627 442
Oil Age hrs Client Info	442 0
Oil Changed Client Info	Changed Not Changd
Sample Status	NORMAL ABNORMAL
CONTAMINATION method lim	nit/base current history1 history2
Fuel WC Method >3.0	0 <1.0 0.4
Water WC Method >0.2	2 NEG NEG
Glycol WC Method	NEG NEG
WEAR METALS method lin	nit/base current history1 history2
Iron ppm ASTM D5185m >12	20 10 27
Chromium ppm ASTM D5185m >20) <1
Nickel ppm ASTM D5185m >5	0 3
Titanium ppm ASTM D5185m >2	0 0
Silver ppm ASTM D5185m >2	0 <1
Aluminum ppm ASTM D5185m >20	2 9
Lead ppm ASTM D5185m >40) <1
Copper ppm ASTM D5185m >33	3 181
Tin ppm ASTM D5185m >15	0 1
Vanadium ppm ASTM D5185m	0 <1
Cadmium ppm ASTM D5185m	0
ADDITIVES method lin	nit/base current history1 history2
Boron ppm ASTM D5185m 0	0 335
Barium ppm ASTM D5185m 0	0 <1
Molybdenum ppm ASTM D5185m 60	62 122
Manganese ppm ASTM D5185m 0	0 4
Magnesium ppm ASTM D5185m 101	0 1080 699
Calcium ppm ASTM D5185m 107	70 1180 1486
Phosphorus ppm ASTM D5185m 115	50 1108 729
Zinc ppm ASTM D5185m 127	
Sulfur ppm ASTM D5185m 206	3893 2809
CONTAMINANTS method lim	nit/base current history1 history2
Silicon ppm ASTM D5185m >25	
Sodium ppm ASTM D5185m	8 3
Potassium ppm ASTM D5185m >20) <1 15
INFRA-RED method lin	nit/base current history1 history2
Soot %	0.2
Nitration Abs/cm *ASTM D7624 >20	7.9 8.3
Sulfation Abs/.1mm *ASTM D7415 >30	19.4 25.2
FLUID DEGRADATION method lin	nit/base current history1 history2
Oxidation Abs/.1mm *ASTM D7414 >25	16.6 22.2
Base Number (BN) mg KOH/g ASTM D2896 9.8	8.8 8.6



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

: GFL0117606 Lab Number : 06160061 Unique Number : 10995484 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 25 Apr 2024 **Tested** : 25 Apr 2024

Diagnosed : 25 Apr 2024 - Wes Davis

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)

GFL Environmental - 415 - Michigan East 6200 Elmridge Sterling Heights, MI

Submitted By: Frank Wolak

US 48313 Contact: Frank Wolak

fwolak@gflenv.com T: (586)825-9514