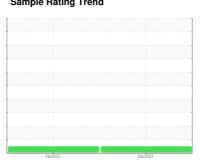


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Blue Bird 4939

Component

Diesel Engine

PETRO CANADA DURON SHP 10W30 (--- 0

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a components first oil change.

Contamination

There is no indication of any contamination in the

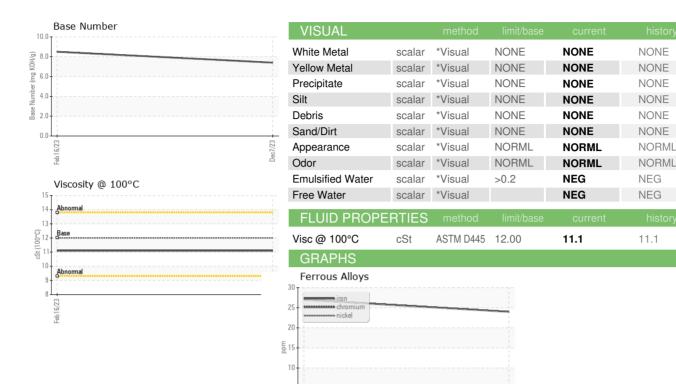
Fluid Condition

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

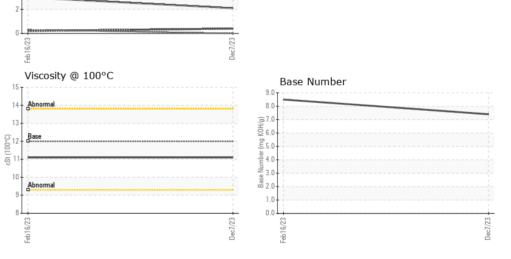
GAL)			Feb 2023	Dec2023		
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0091663	PCA0045395	
Sample Date		Client Info		07 Dec 2023	16 Feb 2023	
Machine Age	mls	Client Info		91196	72085	
Oil Age	mls	Client Info		19111	72085	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	24	27	
Chromium	ppm	ASTM D5185m	>20	<1	<1	
Nickel	ppm	ASTM D5185m	>2	0	0	
Titanium	ppm	ASTM D5185m	>2	<1	<1	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>20	5	8	
Lead	ppm	ASTM D5185m	>40	<1	<1	
Copper	ppm	ASTM D5185m	>330	2	3	
Tin	ppm	ASTM D5185m	>15	0	<1	
Vanadium	ppm	ASTM D5185m		<1	<1	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	<1	<1	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	50	60	59	
Manganese	ppm	ASTM D5185m	0	<1	1	
Magnesium	ppm	ASTM D5185m	950	933	929	
Calcium	ppm	ASTM D5185m	1050	1024	1109	
Phosphorus	ppm	ASTM D5185m	995	968	966	
Zinc	ppm	ASTM D5185m	1180	1184	1211	
Sulfur	ppm	ASTM D5185m	2600	2806	3204	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	3	
Sodium	ppm	ASTM D5185m		<1 -	2	
Potassium	ppm	ASTM D5185m	>20	7	12	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.5	0.5	
Nitration	Abs/cm	*ASTM D7624	>20	9.0	9.1	
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.8	19.8	
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.1	16.8	
Base Number (BN)	mg KOH/g	ASTM D2896		7.4	8.5	



OIL ANALYSIS REPORT



Non-ferrous Metals







Certificate L2367

Laboratory Sample No. Lab Number Unique Number

: PCA0091663 : 06040292 : 10795521

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

: 20 Dec 2023

: 21 Dec 2023 Diagnostician : Angela Borella

Test Package : FLEET (Additional Tests: FT-IR(Diff)) 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)

ICSB571 - Gibson City 524 East 7th Street

Gibson City, IL US 60936 Contact: Wayne Justus

w.justus@illinois-central.com T: (217)784-5800