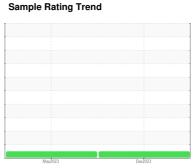


OIL ANALYSIS REPORT



NORMAL



Machine Id **223036**

Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (--- G

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the

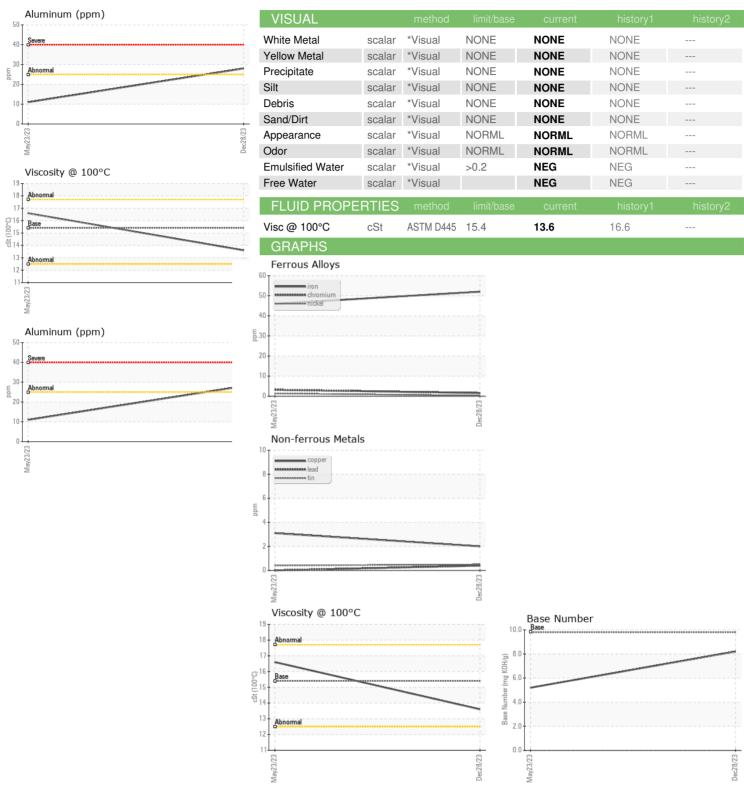
Fluid Condition

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

GAL)			May2023	Dec2023		
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number Sample Date		Client Info		GFL0104998 28 Dec 2023	GFL0081478 23 May 2023	
Machine Age Oil Age	hrs hrs	Client Info		0	0 650	
Oil Changed	1113	Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<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	>100	52	46	
Chromium	ppm	ASTM D5185m	>20	2	3	
Nickel	ppm	ASTM D5185m	>2	<1	1	
Titanium	ppm	ASTM D5185m	>2	<1	2	
Silver	ppm	ASTM D5185m	>2	<1	<1	
Aluminum	ppm	ASTM D5185m	>25	28	11	
Lead	ppm	ASTM D5185m	>40	<1	0	
Copper	ppm	ASTM D5185m	>330	2	3	
Tin	ppm	ASTM D5185m	>15	<1	<1	
Vanadium	ppm	ASTM D5185m		0	<1	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	3	4	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	60	69	
Manganese	ppm	ASTM D5185m	0	1	1	
Magnesium	ppm	ASTM D5185m	1010	992	1056	
Calcium	ppm	ASTM D5185m	1070	1063	1265	
Phosphorus	ppm	ASTM D5185m	1150	1071	1021	
Zinc	ppm	ASTM D5185m	1270	1323	1406	
Sulfur	ppm	ASTM D5185m	2060	3008	3361	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	9	14	
Sodium	ppm	ASTM D5185m		5	18	
Potassium	ppm	ASTM D5185m	>20	46	5	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.4	0.1	
Nitration	Abs/cm	*ASTM D7624	>20	9.7	17.5	
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.3	34.5	
FLUID DEGRA	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.3	34.5	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.2	5.2	



OIL ANALYSIS REPORT







Laboratory Sample No. Lab Number Unique Number Test Package : FLEET

: 06048714 : 10809322

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0104998 Recieved Diagnosed Diagnostician

: 02 Jan 2024 : 03 Jan 2024 : Wes Davis

GFL Environmental - 893 - OK East Hauling 2100 Lilly Street Seminole, OK

US 74868 Contact: Roger Barlow rbarlow@gflenv.com T: (405)204-6183

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)