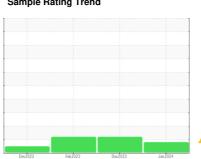


OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id **228062-670443**

Component

Diesel Engine

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

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

An increase in the aluminum level is noted.

Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

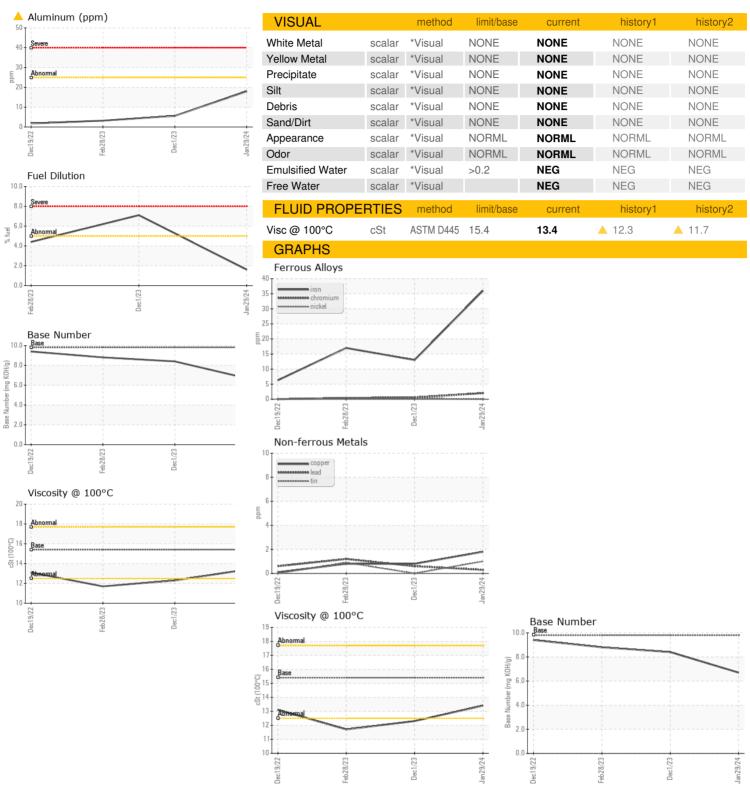
Fluid Condition

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

GAL)		Dec202	2 Feb 2023	Dec2023 Ja	n2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0104992	GFL0095334	GFL0059529
Sample Date		Client Info		29 Jan 2024	01 Dec 2023	28 Feb 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	650
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				MARGINAL	ABNORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	36	13	17
Chromium	ppm	ASTM D5185m	>20	2	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	<1
Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	<u> </u>	6	3
Lead	ppm	ASTM D5185m	>40	<1	<1	1
Copper	ppm	ASTM D5185m	>330	2	<1	<1
Tin	ppm	ASTM D5185m	>15	1	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	2	112
Barium	ppm	ASTM D5185m	0	0	6	10
Molybdenum	ppm	ASTM D5185m	60	61	62	44
Manganese	ppm	ASTM D5185m	0	1	0	<1
Magnesium	ppm	ASTM D5185m	1010	1040	938	691
Calcium	ppm	ASTM D5185m	1070	1096	1040	1291
Phosphorus	ppm	ASTM D5185m	1150	1038	1043	952
Zinc	ppm	ASTM D5185m	1270	1236	1198	1149
Sulfur	ppm	ASTM D5185m	2060	2736	3404	4077
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	6	6
Sodium	ppm	ASTM D5185m		15	5	2
Potassium	ppm	ASTM D5185m	>20	29	4	2
Fuel	%	ASTM D3524	>5	1.6	△ 7.1	4.4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.2	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	10.8	6.6	7.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.6	18.2	18.5
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.8	14.3	12.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.7	8.4	8.8



OIL ANALYSIS REPORT







Laboratory Sample No. Lab Number **Unique Number**

: GFL0104992 : 06075441

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

: 10857532

Diagnosed Diagnostician

Recieved

: 31 Jan 2024

: 02 Feb 2024

: Jonathan Hester Test Package : FLEET (Additional Tests: PercentFuel) 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.

GFL Environmental - 893 - OK East Hauling

2100 Lilly Street Seminole, OK US 74868

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

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)