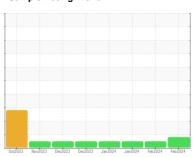


OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id **914030**

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.

Wear

Exhaust valve wear is indicated.

Contamination

There is no indication of any contamination in the oil.

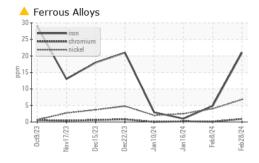
Fluid Condition

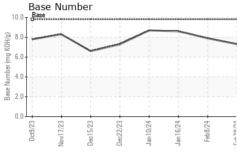
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

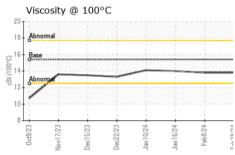
GAL)		Oct2023	lov2023 Dec2023 Dec20	23 Jan2024 Jan2024 Feb2024	Feb2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0109252	GFL0109273	GFL0093543
Sample Date		Client Info		28 Feb 2024	08 Feb 2024	16 Jan 2024
Machine Age	hrs	Client Info		1624	1489	1337
Oil Age	hrs	Client Info		464	329	177
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
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	21	5	1
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	<u>^</u> 7	4	2
Titanium	ppm	ASTM D5185m		20	16	17
Silver	ppm	ASTM D5185m	>3	0	<1	<1
Aluminum	ppm	ASTM D5185m	>20	2	1	1
Lead	ppm	ASTM D5185m	>40	0	1	0
Copper	ppm	ASTM D5185m	>330	37	29	28
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	14	19	20
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	54	46	46
Manganese	ppm	ASTM D5185m	0	<1	1	1
Magnesium	ppm	ASTM D5185m	1010	910	756	791
Calcium	ppm	ASTM D5185m	1070	1229	1055	1078
Phosphorus	ppm	ASTM D5185m	1150	1066	920	985
Zinc	ppm	ASTM D5185m	1270	1324	1112	1142
Sulfur	ppm	ASTM D5185m	2060	3365	2803	2943
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	1	4
Sodium	ppm	ASTM D5185m		4	3	<1
Potassium	ppm	ASTM D5185m	>20	5	4	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	7.8	7.1	6.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.6	19.1	18.4
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.4	14.8	14.3
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.3	7.9	8.6
, ,						

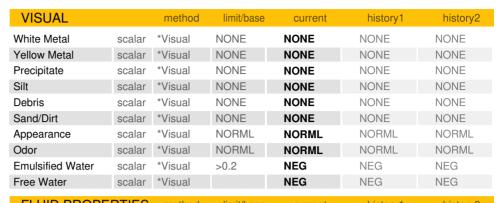


OIL ANALYSIS REPORT



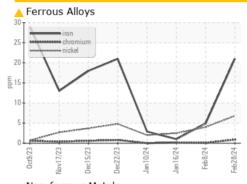


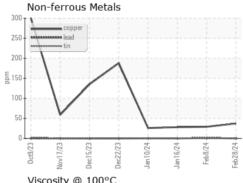


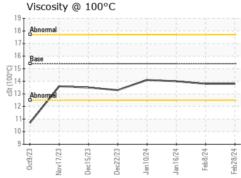


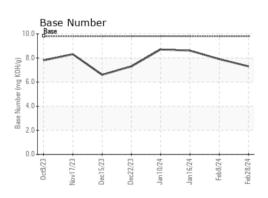
FLUID PROFI	ENTIES	memod	IIIIII/Dase	Current	HISTORY	HISTORYZ
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	13.8	14.0

GRAPHS













Laboratory Sample No.

: GFL0109252 Lab Number : 06104911 Unique Number : 10903141

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 29 Feb 2024 **Tested**

: 01 Mar 2024 : 04 Mar 2024 - Sean Felton Diagnosed

GFL Environmental - 891 - Oklahoma City Hauling

1001 South Rockwell Oklahoma City, OK US 73128

Contact: Andy Smith andrew.smith@gflenv.com T: (405)306-1651

Test Package : FLEET 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)