

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 913094 Component **Diesel Engine**

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



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

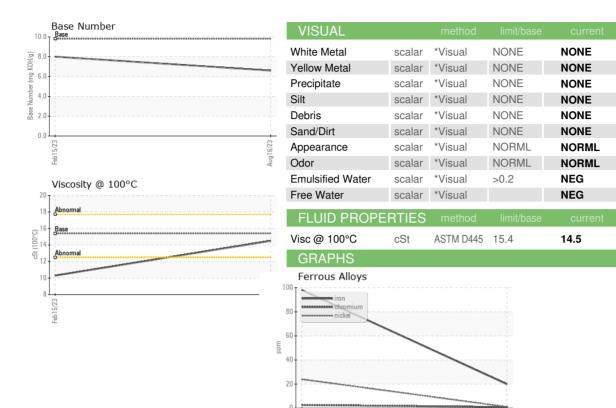
Fluid Condition

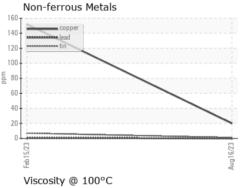
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

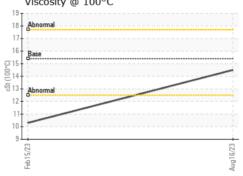
)N 3HP 13W40 (- GAL)		Feb 2023	Aug2023		
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0066949	GFL0067016	
Sample Date		Client Info		16 Aug 2023	15 Feb 2023	
Machine Age	hrs	Client Info		1647	590	
Oil Age	hrs	Client Info		0	590	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	ABNORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	0.4	
Glycol		WC Method		NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	20	98	
Chromium	ppm	ASTM D5185m		<1	3	
Nickel	ppm	ASTM D5185m	>5	1	<u>24</u>	
Titanium	ppm	ASTM D5185m		0	<1	
Silver	ppm	ASTM D5185m	>2	<1	<1	
Aluminum	ppm	ASTM D5185m		4	13	
Lead	ppm	ASTM D5185m	>40	0	<1	
Copper	ppm		>330	20	152	
Tin	ppm	ASTM D5185m	>15	1	7	
Vanadium	ppm	ASTM D5185m	>10	0	<1	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES	ррпп		limit/base			history
		method		current	history1	history2
Boron	ppm	ASTM D5185m	0	7	347	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	67	189	
Manganese	ppm	ASTM D5185m	0	<1	9	
Magnesium	ppm	ASTM D5185m	1010	1046	1110	
Calcium	ppm	ASTM D5185m	1070	1279	2188	
Phosphorus	ppm	ASTM D5185m	1150	1077	1137	
Zinc	ppm	ASTM D5185m	1270	1396	1401	
Sulfur	ppm	ASTM D5185m	2060	3369	3672	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	4 90	
Sodium	ppm	ASTM D5185m		2	8	
Potassium	ppm	ASTM D5185m	>20	3	26	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	8.0	0.7	
Nitration	Abs/cm	*ASTM D7624	>20	10.9	10.2	
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.5	24.7	
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.4	22.0	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.6	8.0	

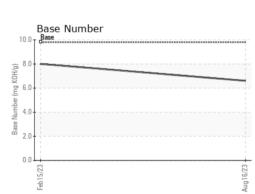


OIL ANALYSIS REPORT









NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

10.3





Certificate L2367

Laboratory Sample No. Lab Number

Unique Number Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0066949 : 05937026 : 10622297

Received : 29 Aug 2023 Diagnosed : Wes Davis Diagnostician

: 29 Aug 2023

GFL Environmental - 916 - Greenbay HC

1799 County Trunk PP DePere, WI US 54115

Contact: Travis Runge travis.runge@gflenv.com T: (920)351-2341

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)