

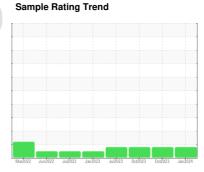
OIL ANALYSIS REPORT



Machine Id 922013 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.

Valve wear is indicated. All other component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

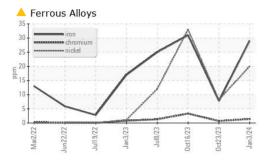
Fluid Condition

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

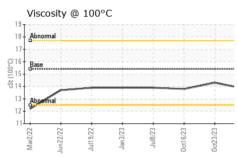
N SHP 15W40 (-	GAL)	Mar2022	Jun2022 Jul2022 Jan20	23 Jul2023 Oct2023 Oct2023	Jan2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0104554	GFL0092611	GFL0082621
Sample Date		Client Info		03 Jan 2024	23 Oct 2023	16 Oct 2023
Machine Age	hrs	Client Info		26915	26417	26300
Oil Age	hrs	Client Info		605	743	0
Oil Changed		Client Info		Not Changd	Not Changd	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<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
ron	ppm	ASTM D5185m	>120	29	8	31
Chromium	ppm	ASTM D5185m	>20	1	<1	3
Nickel	ppm	ASTM D5185m	>5	<u>^</u> 20	<u></u> 8	△ 33
Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	6	4	9
_ead	ppm	ASTM D5185m	>40	1	0	<1
Copper	ppm	ASTM D5185m	>330	3	<1	2
Γin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		<1	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	0	1
Barium	ppm	ASTM D5185m	0	8	0	0
Molybdenum	ppm	ASTM D5185m	60	63	57	63
Manganese	ppm	ASTM D5185m	0	1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	981	924	962
Calcium	ppm	ASTM D5185m	1070	1103	1004	1066
Phosphorus	ppm	ASTM D5185m	1150	959	1091	1037
Zinc	ppm	ASTM D5185m	1270	1243	1199	1232
Sulfur	ppm	ASTM D5185m	2060	2991	3798	3154
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	4	6
Sodium	ppm	ASTM D5185m		0	4	5
Potassium	ppm	ASTM D5185m	>20	2	4	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	1.1	0.3	1.1
Nitration	Abs/cm	*ASTM D7624	>20	9.8	6.0	9.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.3	18.5	21.1
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
	DATION Abs/.1mm	method *ASTM D7414	limit/base >25	current 16.9	history1 14.6	history2 17.6

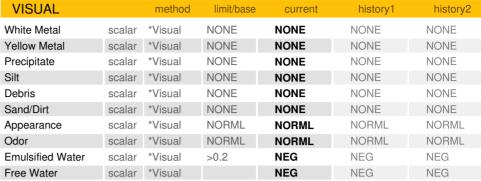


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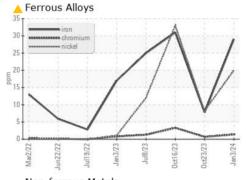
Base	e Numl	ber					
835e Mumber (mg KOH/g) 8.0 8.0 4.0 4.0							
-0.9 gr							
4.0 -							
11							
0.0	27/22	9/22 -	13/23 -	Jul8/23 -	Oct16/23 -	3/23	-
Mar2/	Jun22/	Jul19/2	Jan3,	크	Oct	0ct23/2	

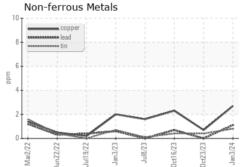


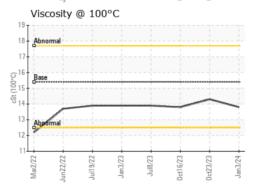


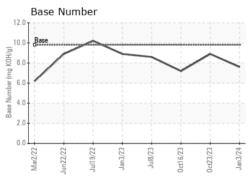
FLUID PHOP	ELLIES	memod	IIIIII/Dase	Current	HISTORY	HISTORYZ
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	14.3	13.8

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Unique Number

: GFL0104554 : 06053388 : 10819337 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 08 Jan 2024 Recieved Diagnosed : 09 Jan 2024

: Sean Felton Diagnostician

GFL Environmental - 947 - WB Horicon HC

N7296 County Rd V Horicon, WI US 53032 Contact: Tim Kieffer tim.kieffer@gflenv.com T: (608)219-0288

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)