

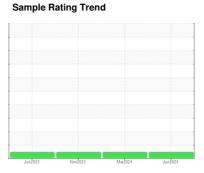
OIL ANALYSIS REPORT



(BD38654) {UNASSIGNED} 913087

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

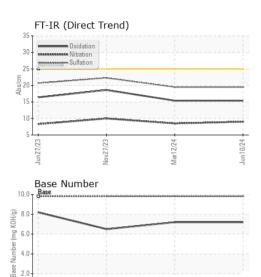
Fluid Condition

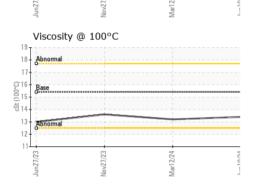
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

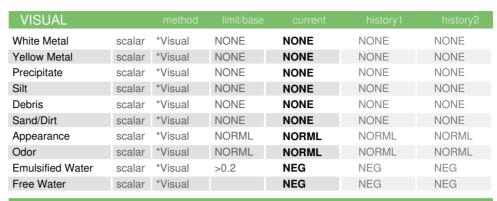
SAMPLE INFORI	MOLTAN	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0100066	GFL0101650	GFL0100044
Sample Date		Client Info		10 Jun 2024	12 Mar 2024	27 Nov 2023
Machine Age	hrs	Client Info		3606	2958	2161
Oil Age	hrs	Client Info		500	1863	511
Oil Changed	1110	Client Info		Not Changd	N/A	Not Changd
Sample Status		Olioni illio		NORMAL	NORMAL	NORMAL
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
Iron	ppm	ASTM D5185m	>120	16	14	31
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	<1	0	<1
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	2	<1	<1
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	3	6	29
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	6	5	3
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	63	55	55
Manganese	ppm	ASTM D5185m	0	1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	952	803	882
Calcium	ppm	ASTM D5185m	1070	1141	960	1186
Phosphorus	ppm	ASTM D5185m	1150	1081	880	957
Zinc	ppm	ASTM D5185m	1270	1286	1073	1230
Sulfur	ppm	ASTM D5185m	2060	3394	2461	2172
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	3	5
Sodium	ppm	ASTM D5185m		8	7	10
Potassium	ppm	ASTM D5185m	>20	10	10	4
INFRA-RED		method	limit/base	current	history1	history2
	%	*ASTM D7844	>4	0.7	0.7	1
Soot %					0.5	10.0
Soot % Nitration	Abs/cm	*ASTM D7624	>20	9.0	8.5	10.0
	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415	>20	9.0 19.5	19.5	22.3
Nitration	Abs/.1mm					
Nitration Sulfation	Abs/.1mm	*ASTM D7415	>30	19.5	19.5	22.3



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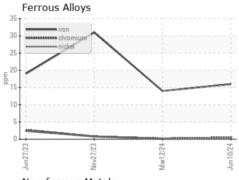


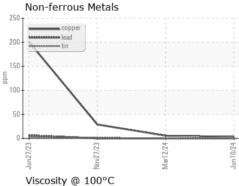


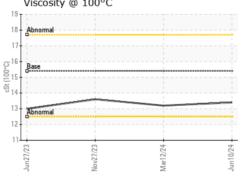


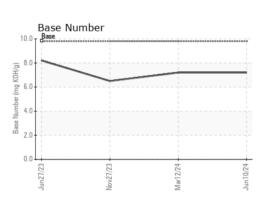
FLUID PROPI	EHILO	method			riistory i	nistoryz
Visc @ 100°C	cSt	ASTM D445	15.4	13.4	13.2	13.6

GRAPHS













Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06211335 Unique Number : 11084199

: GFL0100066 Test Package : FLEET

Received : 17 Jun 2024 **Tested** : 19 Jun 2024 Diagnosed

: 19 Jun 2024 - Wes Davis

GFL Environmental - 626 - Cadillac Hauling

1501 Ron Wilson St Cadillac, MI US 49601

Contact: GARY BREWER gbrewerjr@gflenv.com T:

To discuss this sample report, contact Customer Service at 1-800-237-1369. st - 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)

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