

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

(72248V) 829066-101270

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

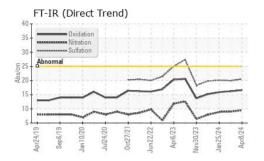
Fluid Condition

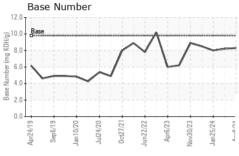
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

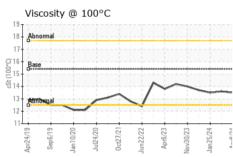
GAL)		.pr2019 Sep20	19 Jan 2020 Jul 2020 Oct 20	021 [†] Jun 2 022 [†] Apr2023 [†] Nov2023 [†] Jan	n2024 Apr202					
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2				
Sample Number		Client Info		GFL0111945	GFL0093581	GFL0101976				
Sample Date		Client Info		08 Apr 2024	07 Mar 2024	25 Jan 2024				
Machine Age	hrs	Client Info		67526	67441	67331				
Oil Age	hrs	Client Info		600	550	0				
Oil Changed		Client Info		Changed	Not Changd	Not Changd				
Sample Status				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	>90	41	31	33				
Chromium	ppm	ASTM D5185m	>20	2	1	2				
Nickel	ppm	ASTM D5185m	>2	<1	<1	0				
Titanium	ppm	ASTM D5185m	>2	<1	<1	<1				
Silver	ppm	ASTM D5185m	>2	0	0	0				
Aluminum	ppm	ASTM D5185m	>20	8	7	6				
Lead	ppm	ASTM D5185m	>40	0	0	0				
Copper	ppm	ASTM D5185m	>330	0	<1	1				
Tin	ppm	ASTM D5185m	>15	<1	<1	0				
Vanadium	ppm	ASTM D5185m		0	0	0				
Cadmium	ppm	ASTM D5185m		0	0	0				
ADDITIVES		method	limit/base	current	history1	history2				
Boron	ppm	ASTM D5185m	0	5	4	2				
Barium	ppm	ASTM D5185m	0	0	0	0				
Molybdenum	ppm	ASTM D5185m	60	62	57	61				
Manganese	ppm	ASTM D5185m	0	<1	<1	<1				
Magnesium	ppm	ASTM D5185m	1010	978	925	959				
Calcium	ppm	ASTM D5185m	1070	1156	1031	1095				
Phosphorus	ppm	ASTM D5185m	1150	1116	1041	1111				
Zinc	ppm	ASTM D5185m	1270	1354	1269	1258				
Sulfur	ppm	ASTM D5185m	2060	3791	3076	3005				
CONTAMINANTS method limit/base current history1 history2										
Silicon	ppm	ASTM D5185m	>25	5	4	4				
Sodium	ppm	ASTM D5185m		5	4	5				
Potassium	ppm	ASTM D5185m	>20	2	2	0				
INFRA-RED		method	limit/base	current	history1	history2				
Soot %	%	*ASTM D7844	>6	0.9	0.8	0.8				
Nitration	Abs/cm	*ASTM D7624	>20	9.5	9.0	8.9				
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.5	19.9	20.1				
FLUID DEGRADATION method limit/base current history1 history2										
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.6	16.2	15.9				
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.3	8.2	8.0				
(1)	0 - 3									

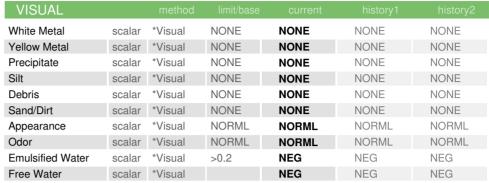


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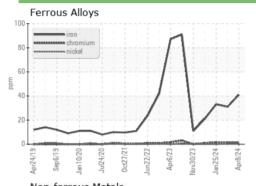


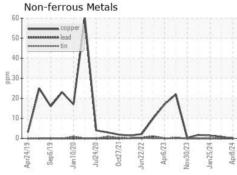


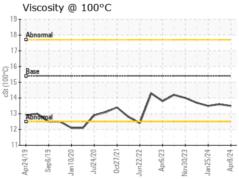


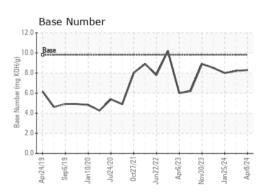
FLUID PROP	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.5	13.6	13.5

GRAPHS













Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0111945 Lab Number : 06146423 Unique Number : 10976501

Test Package : FLEET

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

Received : 11 Apr 2024 **Tested** Diagnosed

: 12 Apr 2024 : 12 Apr 2024 - Wes Davis

GFL Environmental - 893 - OK East Hauling

2100 Lilly Street Seminole, OK US 74868

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

 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)

Report Id: GFL893 [WUSCAR] 06146423 (Generated: 04/12/2024 16:36:29) Rev: 1