

OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 825067

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

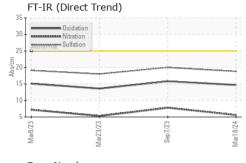
Fluid Condition

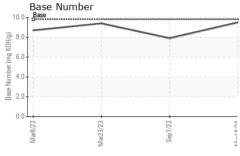
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

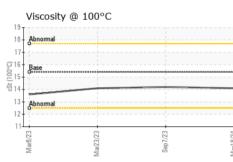
GAL) Maź023 Maź023 Say-2023 Maź024									
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		GFL0108488	GFL0066047	GFL0066110			
Sample Date		Client Info		18 Mar 2024	07 Sep 2023	23 Mar 2023			
Machine Age	hrs	Client Info		0	0	0			
Oil Age	hrs	Client Info		0	0	0			
Oil Changed		Client Info		N/A	N/A	N/A			
Sample Status				NORMAL	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	10	8	3			
Chromium	ppm	ASTM D5185m	>20	2	<1	<1			
Nickel	ppm	ASTM D5185m	>4	0	0	0			
Titanium	ppm	ASTM D5185m		0	0	<1			
Silver	ppm	ASTM D5185m	>3	0	0	0			
Aluminum	ppm	ASTM D5185m	>20	2	2	0			
Lead	ppm	ASTM D5185m	>40	0	<1	0			
Copper	ppm	ASTM D5185m	>330	9	<1	<1			
Tin	ppm	ASTM D5185m	>15	<1	<1	0			
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	39	19	12			
Barium	ppm	ASTM D5185m	0	0	0	0			
Molybdenum	ppm	ASTM D5185m	60	44	70	60			
Manganese	ppm	ASTM D5185m	0	<1	<1	<1			
Magnesium	ppm	ASTM D5185m	1010	602	920	945			
Calcium	ppm	ASTM D5185m	1070	1305	1162	1114			
Phosphorus	ppm	ASTM D5185m	1150	924	1017	1013			
Zinc	ppm	ASTM D5185m	1270	1137	1240	1182			
Sulfur	ppm	ASTM D5185m	2060	3260	3213	3572			
CONTAMINANTS method limit/base current history1 history2									
Silicon	ppm	ASTM D5185m	>25	8	3	3			
Sodium	ppm	ASTM D5185m		4	3	2			
Potassium	ppm	ASTM D5185m	>20	<1	1	<1			
INFRA-RED		method	limit/base	current	history1	history2			
Soot %	%	*ASTM D7844	>3	0.1	0.4	0.1			
Nitration	Abs/cm	*ASTM D7624	>20	5.6	7.8	5.3			
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.8	20.0	18.0			
FLUID DEGRADATION method limit/base current history1 history2									
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.7	15.8	13.6			
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.5	7.9	9.4			
. ,									

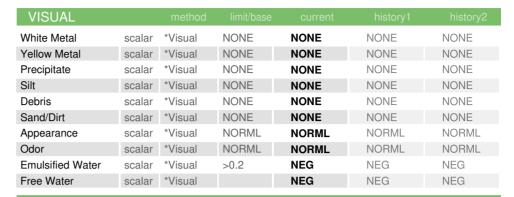


OIL ANALYSIS REPORT



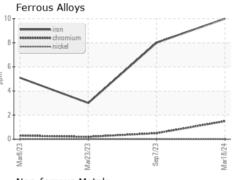


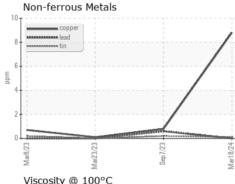


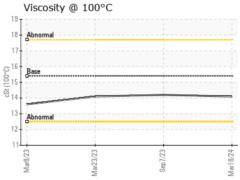


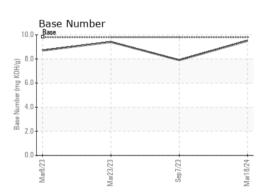
FLUID PROPI	ERIIES	method			History i	nistoryz
Visc @ 100°C	cSt	ASTM D445	15.4	14.1	14.2	14.1

GRAPHS













Certificate 12367

Laboratory Sample No.

: GFL0108488 Lab Number : 06126307 Unique Number : 10940458

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 22 Mar 2024 **Tested** Diagnosed

: 07 Apr 2024 : 07 Apr 2024 - Doug Bogart

GFL Environmental - 904 - Chippewa Falls HC 11888 & 11863 30th Avenue

> Chippewa Falls, WI US 54729

Contact: Andy Kane

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)

T: (715)202-3420

F:

Report Id: GFL904 [WUSCAR] 06126307 (Generated: 04/07/2024 22:22:12) Rev: 1

Contact/Location: See also GFL904, A, B, C, 927, 938) - Andy Kane - GFL904