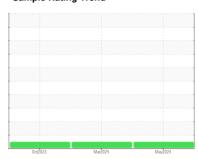


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
523083
Component

Diesel Engine

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

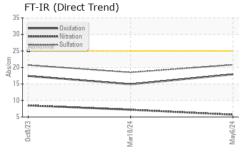
Fluid Condition

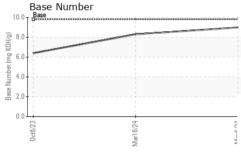
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

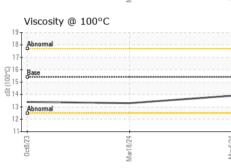
LTR) 0-cizoz3 Minzeoz4 Minyeoz4								
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		GFL0120616	GFL0108486	GFL0066030		
Sample Date		Client Info		06 May 2024	18 Mar 2024	08 Oct 2023		
Machine Age	mls	Client Info		0	0	0		
Oil Age	mls	Client Info		0	0	0		
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	>80	0	3	9		
Chromium	ppm	ASTM D5185m	>5	<1	0	1		
Nickel	ppm	ASTM D5185m	>2	0	0	0		
Titanium	ppm	ASTM D5185m		0	0	<1		
Silver	ppm	ASTM D5185m	>3	0	0	<1		
Aluminum	ppm	ASTM D5185m	>30	<1	1	3		
Lead	ppm	ASTM D5185m	>30	0	1	6		
Copper	ppm	ASTM D5185m	>150	0	<1	5		
Tin	ppm	ASTM D5185m	>5	<1	<1	3		
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	12	5	11		
Barium	ppm	ASTM D5185m	0	1	0	<1		
Molybdenum	ppm	ASTM D5185m	60	56	55	59		
Manganese	ppm	ASTM D5185m	0	<1	<1	<1		
Magnesium	ppm	ASTM D5185m	1010	923	951	849		
Calcium	ppm	ASTM D5185m	1070	1012	1082	1123		
Phosphorus	ppm	ASTM D5185m	1150	1110	1012	962		
Zinc	ppm	ASTM D5185m	1270	1200	1254	1170		
Sulfur	ppm	ASTM D5185m	2060	3804	3444	2661		
CONTAMINAN	ITS	method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>20	3	4	10		
Sodium	ppm	ASTM D5185m		1	<1	3		
Potassium	ppm	ASTM D5185m	>20	0	<1	4		
INFRA-RED		method	limit/base	current	history1	history2		
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1		
Nitration	Abs/cm	*ASTM D7624	>20	5.7	7.2	8.5		
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.8	18.5	20.7		
FLUID DEGRAI	OATION	method	limit/base	current	history1	history2		
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.9	14.9	17.4		
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.0	8.3	6.4		

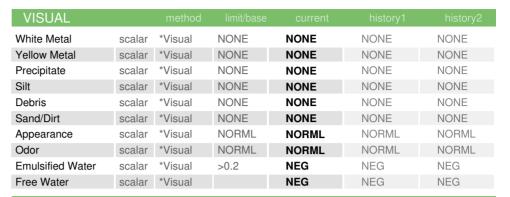


OIL ANALYSIS REPORT



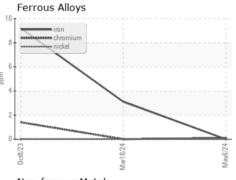


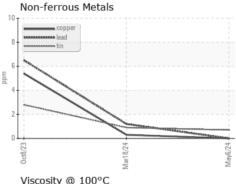


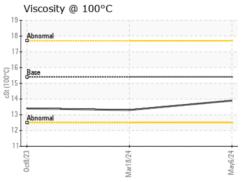


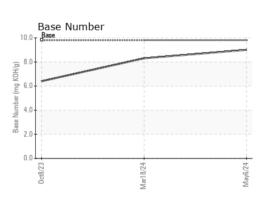
FLUID PROP	ERHES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.9	13.3	13.4

GRAPHS













Certificate 12367

Laboratory Sample No.

: GFL0120616 Lab Number : 06178389

Unique Number : 11029715

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 14 May 2024 **Tested**

: 14 May 2024 Diagnosed : 14 May 2024 - Wes Davis

11888 & 11863 30th Avenue

GFL Environmental - 904 - Chippewa Falls HC

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

Report Id: GFL904 [WUSCAR] 06178389 (Generated: 05/14/2024 19:29:32) Rev: 1

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