

OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **522020-120**

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

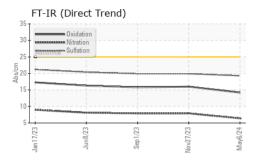
Fluid Condition

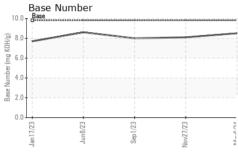
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

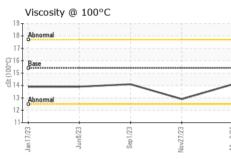
LIK)		Jan 2023	Jun2023	Sep 2023 Nov 2023	May2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0120601	GFL0066146	GFL0066121
Sample Date		Client Info		06 May 2024	27 Nov 2023	01 Sep 2023
Machine Age	hrs	Client Info		0	21064	20503
Oil Age	hrs	Client Info		0	600	500
Oil Changed		Client Info		N/A	Changed	Changed
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	8	<1	6
Chromium	ppm	ASTM D5185m	>5	<1	1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>30	<1	2	3
Lead	ppm	ASTM D5185m	>30	<1	0	3
Copper	ppm	ASTM D5185m	>150	<1	0	<1
Tin	ppm	ASTM D5185m	>5	0	0	<1
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	0	0	7
Barium	ppm	ASTM D5185m		0	4	0
Molybdenum	ppm	ASTM D5185m	60	60	65	67
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m	1010	1029	906	938
Calcium	ppm	ASTM D5185m		1158	1056	1138
Phosphorus	ppm	ASTM D5185m	1150	1060	1011	1039
Zinc	ppm	ASTM D5185m	1270	1247	1187	1263
Sulfur	ppm	ASTM D5185m		3498	3289	3201
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	3	0	8
Sodium	ppm	ASTM D5185m		5	19	3
Potassium	ppm	ASTM D5185m		0	31	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.2	0.2
Nitration	Abs/cm	*ASTM D7624		6.4	7.9	7.9
Sulfation	Abs/.1mm	*ASTM D7415		19.3	19.9	19.9
FLUID DEGRAI	NOITAC		limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.2	16.0	15.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.5	8.1	8.0

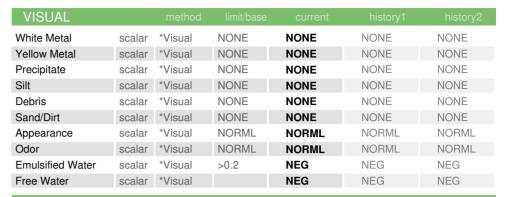


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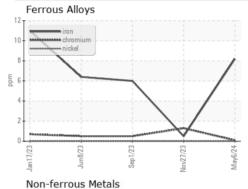


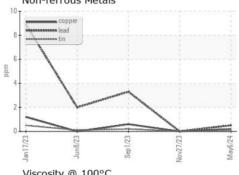


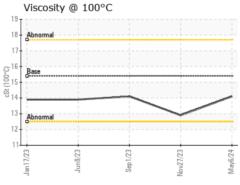


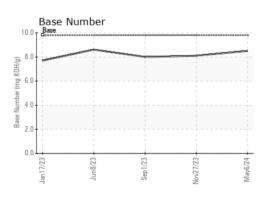
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.1	12.9	14.1

GRAPHS













Certificate 12367

Laboratory Sample No.

Lab Number : 06178364 Unique Number : 11029690

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0120601 Received **Tested**

Diagnosed Test Package : FLEET

: 14 May 2024 : 14 May 2024 - Wes Davis

GFL Environmental - 904A - Thorpe

N14985 Tieman Ave Thorp, WI US 54771

Contact: Andy Kane akane@gflenv.com T: (715)202-3420

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)

: 14 May 2024

Report Id: GFL904A [WUSCAR] 06178364 (Generated: 05/14/2024 19:07:36) Rev: 1

Submitted By: See also GFL904,A,B,C, 927, 938 - Andy Kane