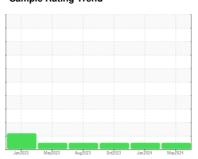


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id 813043 Component

Component

Diesel Engine

Fluid

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

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

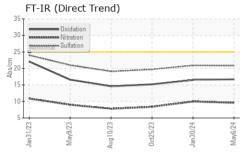
Fluid Condition

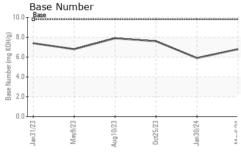
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

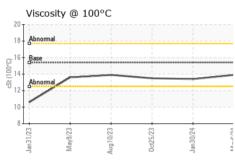
GAL)		Jan 2023	May2023 Aug2023	3 Oct2023 Jan2024	May2024				
SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		GFL0077735	GFL0077759	GFL0077807			
Sample Date		Client Info		06 May 2024	30 Jan 2024	25 Oct 2023			
Machine Age	hrs	Client Info		3374	2788	2187			
Oil Age	hrs	Client Info		0	0	0			
Oil Changed		Client Info		Changed	Changed	Changed			
Sample Status				NORMAL	NORMAL	NORMAL			
CONTAMINATION	NC	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 METALS	3	method	limit/base	current	history1	history2			
Iron	ppm	ASTM D5185m	>165	18	15	10			
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1			
Nickel	ppm	ASTM D5185m	>4	3	4	<1			
Titanium	ppm	ASTM D5185m	>2	<1	0	0			
Silver	ppm	ASTM D5185m	>2	<1	<1	<1			
Aluminum	ppm	ASTM D5185m	>20	2	2	<1			
Lead	ppm	ASTM D5185m	>150	<1	<1	0			
Copper	ppm	ASTM D5185m	>90	2	3	3			
Tin	ppm	ASTM D5185m	>5	1	2	<1			
Vanadium	ppm	ASTM D5185m		<1	<1	0			
Cadmium	ppm	ASTM D5185m		0	0	0			
ADDITIVES		method	limit/base	current	history1	history2			
Boron	ppm	ASTM D5185m	0	0	6	5			
Barium	ppm	ASTM D5185m	0	0	0	0			
Molybdenum	ppm	ASTM D5185m	60	63	60	55			
Manganese	ppm	ASTM D5185m	0	<1	<1	<1			
Magnesium	ppm	ASTM D5185m	1010	973	928	871			
Calcium	ppm	ASTM D5185m	1070	1135	1038	977			
Phosphorus	ppm	ASTM D5185m	1150	1115	1007	967			
Zinc	ppm	ASTM D5185m	1270	1292	1257	1153			
Sulfur	ppm	ASTM D5185m	2060	3086	2771	2699			
CONTAMINANT	ΓS	method	limit/base	current	history1	history2			
Silicon	ppm	ASTM D5185m	>35	5	5	5			
Sodium	ppm	ASTM D5185m		4	5	5			
Potassium	ppm	ASTM D5185m	>20	3	4	<1			
INFRA-RED		method	limit/base	current	history1	history2			
Soot %	%	*ASTM D7844	>7.5	0.8	0.8	0.6			
Nitration	Abs/cm	*ASTM D7624	>20	9.6	10.0	8.4			
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.8	20.9	19.7			
FLUID DEGRADATION method limit/base current history1 history2									
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.7	16.5	15.2			
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.8	5.9	7.6			

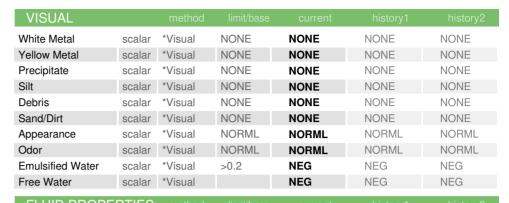


OIL ANALYSIS REPORT



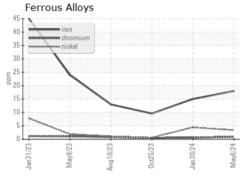




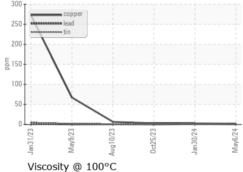


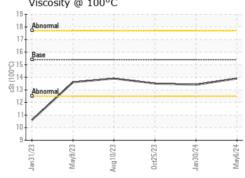
FLUID PROPI	ERIIES	method			HISTORY	History∠
Visc @ 100°C	cSt	ASTM D445	15.4	13.9	13.4	13.5

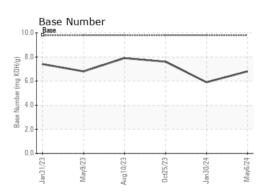
GRAPHS



Non-ferrous Metals











Laboratory Sample No.

: GFL0077735 Lab Number : 06174866 Unique Number : 11020919

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Received : 09 May 2024 **Tested** : 10 May 2024

Diagnosed : 10 May 2024 - Wes Davis

GFL Environmental - 650 - West Point Hauling

7825 Parham Landing Road West Point, VA US 23181

Contact: Jason Smith jasonsmith@gflenv.com T: (804)843-9288

Test Package : FLEET Certificate 12367 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)