

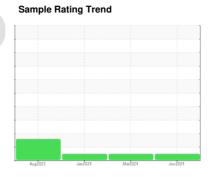
OIL ANALYSIS REPORT



Machine Id **729089-13135**Component Size of Engine

Diesel Engine

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

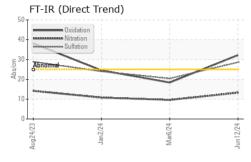
Fluid Condition

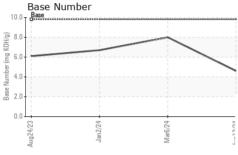
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

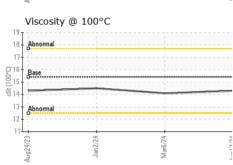
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0103576	GFL0103551	GFL0085342
Sample Date		Client Info		12 Jun 2024	06 Mar 2024	02 Jan 2024
Machine Age	hrs	Client Info		7758	7118	923
Oil Age	hrs	Client Info		7758	0	649
Oil Changed		Client Info		Changed	Changed	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	71	24	50
Chromium	ppm	ASTM D5185m	>5	2	<1	1
Nickel	ppm	ASTM D5185m	>2	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>30	4	1	4
Lead	ppm	ASTM D5185m	>30	0	0	<1
Copper	ppm	ASTM D5185m	>150	2	1	2
Tin	ppm	ASTM D5185m	>5	<1	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	3	<1	4
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	65	61	62
Manganese	ppm	ASTM D5185m	0	1	0	<1
Magnesium	ppm	ASTM D5185m	1010	1051	1056	1044
Calcium	ppm	ASTM D5185m	1070	1158	1143	1102
Phosphorus	ppm	ASTM D5185m	1150	1139	1086	1168
Zinc	ppm	ASTM D5185m	1270	1401	1334	1420
Sulfur	ppm	ASTM D5185m	2060	3272	3579	3181
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	15	9	23
Sodium	ppm	ASTM D5185m		9	5	7
Potassium	ppm	ASTM D5185m	>20	4	1	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.1	0.6	0.6
Nitration	Abs/cm	*ASTM D7624	>20	13.3	9.6	10.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	28.6	20.4	24.0
Juliation						
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
	Abs/.1mm	method *ASTM D7414	limit/base	current 32.2	history1 18.4	history2 24.5

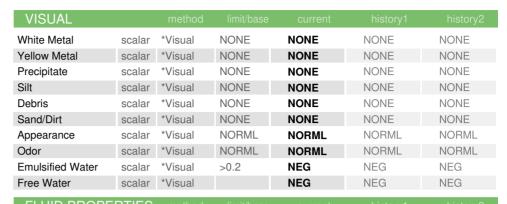


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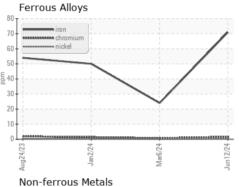


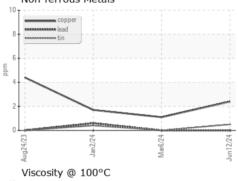


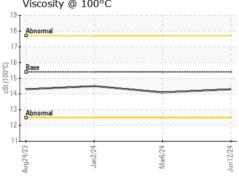


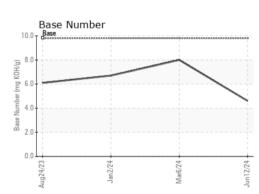
FLUID PROP	EHILO	method			riistory i	HISTORYZ
Visc @ 100°C	cSt	ASTM D445	15.4	14.3	14.1	14.5

GRAPHS













Certificate 12367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. Lab Number : 06217578

Test Package : FLEET

Unique Number : 11090442

: GFL0103576

Received **Tested** Diagnosed

: 21 Jun 2024 : 25 Jun 2024 : 25 Jun 2024 - Don Baldridge

GFL Environmental - 958A - Chillicothe Wigand

19908 N. State Rd 29 Chillicothe, IL

US 61523 Contact: Bryan Link blink@gflenv.com

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)

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