

OIL ANALYSIS REPORT

Sample Rating Trend **WEAR**



Machine Id 729016-1263

Diesel Engine

PETRO CANADA DURON SHP 15W40 (24 QTS)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

Cylinder, crank, or cam shaft wear is indicated. All other component wear rates are normal.

Contamination

There is no indication of any contamination in the

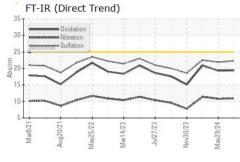
Fluid Condition

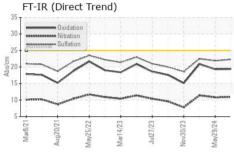
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

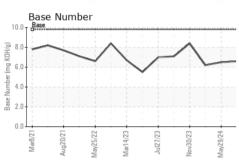
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0120862	GFL0120928	GFL0110344
Sample Date		Client Info		31 May 2024	29 May 2024	08 Mar 2024
Machine Age	hrs	Client Info		11423	11399	10831
Oil Age	hrs	Client Info		600	565	849
Oil Changed		Client Info		Changed	Not Changd	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
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	<u> </u>	△ 97	▲ 87
Chromium	ppm	ASTM D5185m	>5	3	3	3
Nickel	ppm	ASTM D5185m	>2	2	2	2
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>30	6	7	5
Lead	ppm	ASTM D5185m	>30	0	0	0
Copper	ppm	ASTM D5185m	>150	3	3	2
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	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	62	61	63
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	888	872	914
Calcium	ppm	ASTM D5185m	1070	1135	1125	1084
Phosphorus	ppm	ASTM D5185m	1150	993	957	995
Zinc	ppm	ASTM D5185m	1270	1198	1168	1237
Sulfur	ppm	ASTM D5185m	2060	2978	2927	2928
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	14	17	15
Sodium	ppm	ASTM D5185m		8	8	7
Potassium	ppm	ASTM D5185m	>20	3	3	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	0.6	0.7
Nitration	Abs/cm	*ASTM D7624	>20	10.9	10.8	11.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.3	21.9	22.5
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.4	19.3	20.9
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.6	6.5	6.2

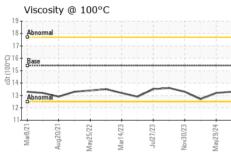


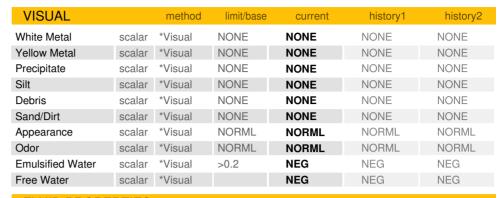
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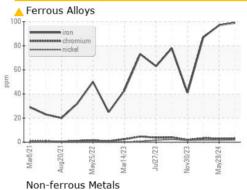


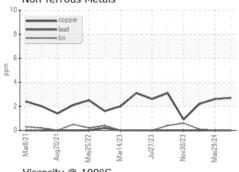


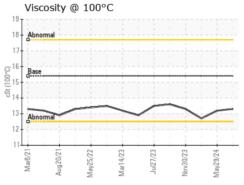


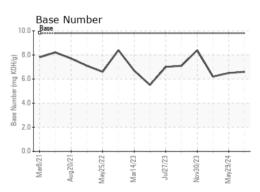
FLUID PROPE	RHES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.3	13.2	12.7

GRAPHS













Certificate 12367

Laboratory

Sample No. Lab Number : 06198917

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0120862

Unique Number : 11061040

Received : 04 Jun 2024 **Tested**

: 05 Jun 2024 Diagnosed : 06 Jun 2024 - Don Baldridge

GFL Environmental - 622 - Traverse City Hauling

160 Hughes Dr Traverse City, MI US 49686

Contact: GARY BREWER

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)

Report Id: GFL622 [WUSCAR] 06198917 (Generated: 06/06/2024 09:40:41) Rev: 1

Submitted By: TECHNICIAN ACCOUNT

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