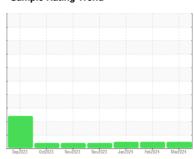


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id
713025
Component
Diesel Engine

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the oil.

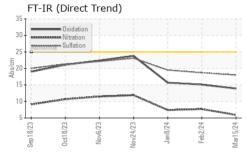
Fluid Condition

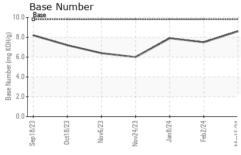
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

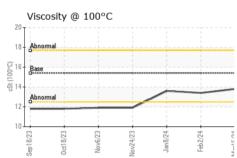
AL)		Sep2023	Oct2023 Nov2023	Nov2023 Jan2024 Feb2024	Mar2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0104887	GFL0104956	GFL0088138
Sample Date		Client Info		15 Mar 2024	02 Feb 2024	08 Jan 2024
Machine Age	mls	Client Info		14500	12707	11392
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	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 METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	4	17	13
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	2	1
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	0	1	<1
Tin	ppm	ASTM D5185m	>15	0	<1	<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	2	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	60	59	58	58
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	993	928	1002
Calcium	ppm	ASTM D5185m	1070	1137	1003	1083
Phosphorus	ppm	ASTM D5185m	1150	1090	998	1046
Zinc	ppm	ASTM D5185m	1270	1350	1181	1282
Sulfur	ppm	ASTM D5185m	2060	3820	2865	3176
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	4	3
Sodium	ppm	ASTM D5185m	00	1	4	3
Potassium	ppm	ASTM D5185m	>20	<1	1	1
INFRA-RED	0/	method	limit/base	current	history1	history2
Soot %	% Aba/ana	*ASTM D7844	>6	0.2	0.3	0.4
Nitration	Abs/cm	*ASTM D7624	>20	5.9	7.7	7.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.0	18.7	19.5
FLUID DEGRA		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.9	15.1	15.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.6	7.5	7.9

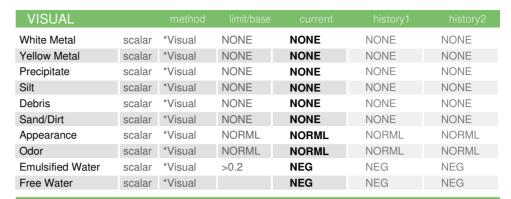


OIL ANALYSIS REPORT



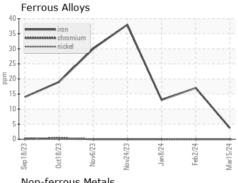


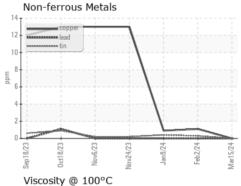


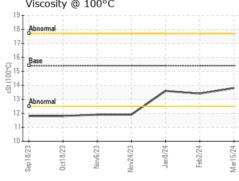


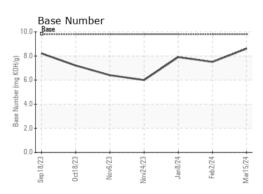
FLUID PROP	EKIIES	method	ilmit/base		nistory i	nistory∠
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	13.4	13.6

GRAPHS













Certificate 12367

Laboratory Sample No. Lab Number : 06158739 Unique Number : 10994162

: GFL0104887 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 24 Apr 2024 **Tested**

: 25 Apr 2024 Diagnosed : 25 Apr 2024 - Wes Davis

3700 West 7th Street

US 64801 Contact: James Jarrett jjarrett@gflenv.com T: (417)310-2802

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)

GFL Environmental - 820 - Joplin Hauling

Joplin, MO