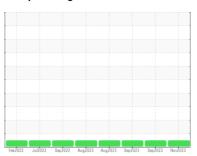


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id 4620 M Component Diesel Engin Fluid PETRO CAN

462UM
Component
Diesel Engine
Fluid

PETRO CANADA DURON SHP 15W40 (36 QTS)

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

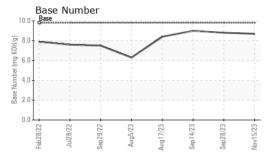
Fluid Condition

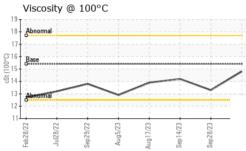
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		Feb 2022	Jul2022 Sep2022 Aug20			
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0059273	GFL0084965	GFL0084895
Sample Date		Client Info		15 Nov 2023	28 Sep 2023	14 Sep 2023
Machine Age	hrs	Client Info		21667	21246	21115
Oil Age	hrs	Client Info		21667	131	249
Oil Changed		Client Info		Not Changd	N/A	Changed
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	25	2	8
Chromium	ppm	ASTM D5185m	>20	1	0	1
Nickel	ppm	ASTM D5185m	>2	<1	<1	<1
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	2	2
Lead	ppm	ASTM D5185m	>40	3	1	0
Copper	ppm	ASTM D5185m	>330	0	<1	<1
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	3	4	2
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	60	56	92
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	986	906	1414
Calcium	ppm	ASTM D5185m	1070	1097	1017	1570
Phosphorus	ppm	ASTM D5185m	1150	1085	1015	1482
Zinc	ppm	ASTM D5185m	1270	1341	1222	1858
Sulfur	ppm	ASTM D5185m	2060	3067	3057	5187
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	5	5
Sodium	ppm	ASTM D5185m		2	2	7
Potassium	ppm	ASTM D5185m	>20	<1	2	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.4	0.2	0.7
Nitration	Abs/cm	*ASTM D7624	>20	9.7	5.7	7.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.2	17.6	19.6
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.9	13.7	15.3
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.7	8.8	9.0
(2.1)	339					



OIL ANALYSIS REPORT

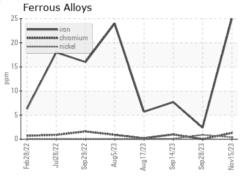


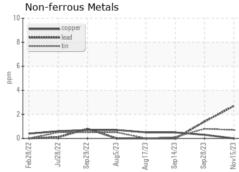


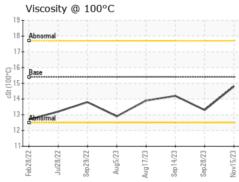
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

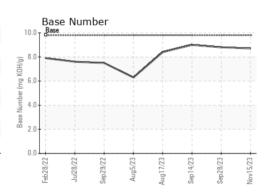
FLUID PROPE	RHES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.8	13.3	14.2

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number Test Package : FLEET

: 06010554 Unique Number : 10749698

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0059273

Received Diagnosed Diagnostician : Wes Davis

: 17 Nov 2023 : 20 Nov 2023

Wayne, MI

GFL Environmental - 410 - Michigan West

US 48184 Contact: Belal Dgheish bdgheish@gflenv.com T: (734)714-2340

39000 Van Born Rd

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)