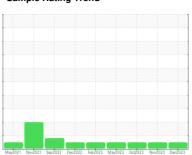


OIL ANALYSIS REPORT

Sample Rating Trend







Machine 470 Compor Diese Fluid PETR

Machine Id
4708M
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

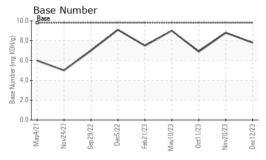
Fluid Condition

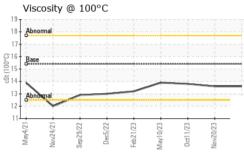
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORI	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0105607	GFL0089083	GFL0093199	
Sample Date		Client Info		12 Dec 2023	20 Nov 2023	11 Oct 2023	
Machine Age	hrs	Client Info		11900	11734	11413	
Oil Age	hrs	Client Info		11734	200	10173	
Oil Changed		Client Info		Changed	Not Changd	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	>75	54	36	35	
Chromium	ppm	ASTM D5185m	>5	2	1	2	
Nickel	ppm	ASTM D5185m	>4	<1	<1	<1	
Titanium	ppm	ASTM D5185m	>2	0	<1	<1	
Silver	ppm	ASTM D5185m	>2	<1	0	0	
Aluminum	ppm	ASTM D5185m	>15	12	7	10	
Lead	ppm	ASTM D5185m	>25	0	<1	<1	
Copper	ppm	ASTM D5185m	>100	0	4	2	
Tin	ppm	ASTM D5185m	>4	<1	0	<1	
Vanadium	ppm	ASTM D5185m		0	0	<1	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	3	8	<1	
Barium	ppm	ASTM D5185m	0	0	0	12	
Molybdenum	ppm	ASTM D5185m	60	59	57	64	
Manganese	ppm	ASTM D5185m	0	<1	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	948	921	990	
Calcium	ppm	ASTM D5185m	1070	1058	1059	1102	
Phosphorus	ppm	ASTM D5185m	1150	1084	879	1073	
Zinc	ppm	ASTM D5185m	1270	1323	1175	1299	
Sulfur	ppm	ASTM D5185m	2060	3243	2999	3128	
CONTAMINAN	TS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	8	6	8	
Sodium	ppm	ASTM D5185m		40	28	57	
Potassium	ppm	ASTM D5185m	>20	13	7	17	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>6	0.7	0.5	0.9	
Nitration	Abs/cm	*ASTM D7624	>20	9.3	8.2	10.1	
Sulfation	Abs/.1mm	*ASTM D7415		19.3	18.8	19.5	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.9	15.0	15.7	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.8	8.8	6.9	
	9		3.0		0.0	0.0	



OIL ANALYSIS REPORT

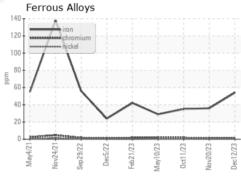


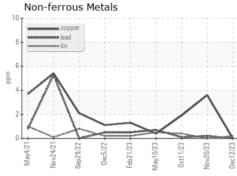


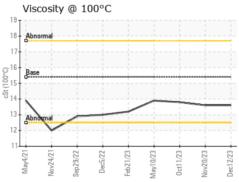
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

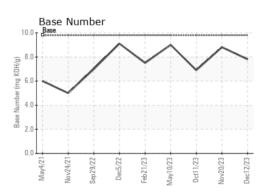
FLUID PROPE	RHES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	13.6	13.8

GRAPHS











Certificate L2367

Laboratory Sample No. Lab Number

: GFL0105607 : 06034421 Unique Number : 10789650 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 14 Dec 2023 Diagnosed : 15 Dec 2023

Diagnostician : Wes Davis

GFL Environmental - 415 - Michigan East 6200 Elmridge

Sterling Heights, MI US 48313 Contact: Frank Wolak fwolak@gflenv.com T: (586)825-9514

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)