

OIL ANALYSIS REPORT

Sample Rating Trend

DEGRADATION

Machine Id 721565

Component Diesel Engine Fluid PETRO CANADA DURON SHP 10W30 (--- QTS)

DIAGNOSIS

Recommendation

We advise that you check for faulty combustion, plugged air filters, or aftercoolers. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. NOTE: High solids (carbon/soot) in the sample have limited the accuracy of Infra-Red data including Total Base Number (TBN) value.

📥 Wear

Cylinder, crank, or cam shaft wear is indicated.

Contamination There is an abnorn

There is an abnormal amount of solids and carbon present in the oil.

Fluid Condition

The BN level is low.

215)		Aug2022	Jan2023 Mar2023	Jul2023 Oct2023	Dec2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0115272	PCA0106270	PCA0103013
Sample Date		Client Info		27 Dec 2023	02 Oct 2023	25 Jul 2023
Machine Age	mls	Client Info		254818	226551	202356
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				ABNORMAL	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 METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	人 137	99	66
Chromium	ppm	ASTM D5185m	>20	6	4	2
Nickel	ppm	ASTM D5185m	>4	0	1	<1
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	16	11	8
Lead	ppm	ASTM D5185m	>40	0	<1	<1
Copper	ppm	ASTM D5185m	>330	23	20	21
Tin	ppm	ASTM D5185m	>15	2	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	2	5	0	4
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	50	69	73	68
Manganese	ppm	ASTM D5185m	0	2	2	<1
Magnesium	ppm	ASTM D5185m	950	989	1090	989
Calcium	ppm	ASTM D5185m	1050	1265	1350	1294
Phosphorus	ppm	ASTM D5185m	995	1143	1238	1035
Zinc	ppm	ASTM D5185m	1180	1359	1596	1331
Sulfur	ppm	ASTM D5185m	2600	2281	2814	2904
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	11	10	6
Sodium	ppm	ASTM D5185m		14	12	15
Potassium	ppm	ASTM D5185m	>20	12	12	9
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	A 3.7	2.6	1.7
Nitration	Abs/cm	*ASTM D7624	>20	18.9	16.4	12.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	35.4	30.4	24.9
FLUID DEGRAD	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	37.5	30.3	23.1
Base Number (BN)	mg KOH/g	ASTM D2896		1.0	4.3	5.9



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Contact/Location: MIKE LONGETTE - MILRUT