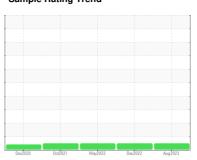


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id DT35 Component Diesel Engi

Diesel Engine

PETRO CANADA DURON SHP 10W30 (--- 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

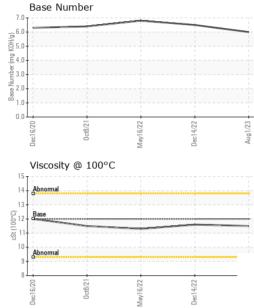
Fluid Condition

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

QTS) Dec2020 Oct2021 Mer/2022 Dec2022 Aug-2023							
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		PCA0100060	PCA0087401	PCA0074197	
Sample Date		Client Info		01 Aug 2023	14 Dec 2022	16 May 2022	
Machine Age	mls	Client Info		178627	150343	120881	
Oil Age	mls	Client Info		150343	0	25000	
Oil Changed		Client Info		Changed	Changed	Changed	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2	
Fuel		WC Method	>5	<1.0	<1.0	<1.0	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METALS method limit/base current history1 history2							
Iron	ppm	ASTM D5185m	>100	20	27	29	
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1	
Nickel	ppm	ASTM D5185m	>4	0	0	0	
Titanium	ppm	ASTM D5185m		<1	<1	<1	
Silver	ppm	ASTM D5185m	>3	<1	0	<1	
Aluminum	ppm	ASTM D5185m	>20	7	10	9	
Lead	ppm	ASTM D5185m	>40	0	0	0	
Copper	ppm	ASTM D5185m	>330	2	2	3	
Tin	ppm	ASTM D5185m	>15	<1	<1	<1	
Antimony	ppm	ASTM D5185m					
Vanadium	ppm	ASTM D5185m		<1	0	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	2	2	3	3	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	50	69	69	66	
Manganese	ppm	ASTM D5185m	0	<1	<1	<1	
Magnesium	ppm	ASTM D5185m	950	1018	998	1069	
Calcium	ppm	ASTM D5185m	1050	1225	1280	1244	
Phosphorus	ppm	ASTM D5185m	995	1045	1112	1162	
Zinc	ppm	ASTM D5185m	1180	1310	1354	1445	
Sulfur	ppm	ASTM D5185m	2600	3380	3658	2806	
CONTAMINAN	TS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	6	6	6	
Sodium	ppm	ASTM D5185m		2	0	<1	
Potassium	ppm	ASTM D5185m	>20	8	19	14	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.7	0.9	0.7	
Nitration	Abs/cm	*ASTM D7624	>20	10.1	13.1	11.5	
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.9	26.1	24.0	
FLUID DEGRA	DATION	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.8	22.4	20.2	
Base Number (BN)	mg KOH/g	ASTM D2896		6.0	6.5	6.8	



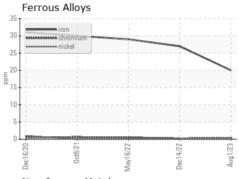
OIL ANALYSIS REPORT

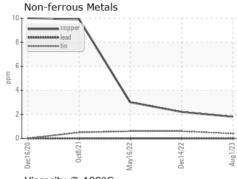


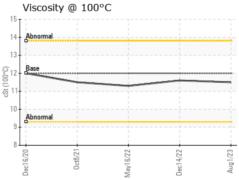
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

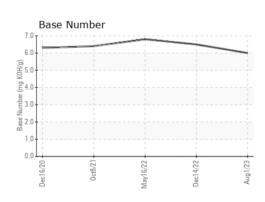
FLUID PROP	ERITES	method			riistory i	nistory∠
Visc @ 100°C	cSt	ASTM D445	12.00	11.5	11.6	11.3

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Test Package : FLEET

: 05918351 Unique Number : 10590265

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0100060 Received : 08 Aug 2023 Diagnosed

: 08 Aug 2023 Diagnostician : Wes Davis

HK STEELE INC 400 N PARSON ST WEST COLUMBIA, SC US 29169

Contact: GEORGE EDWARDS

gedwards@nwwhite.com

T:

* - 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)

F: