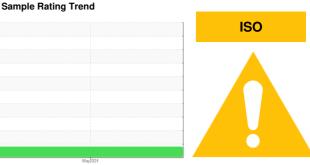


OIL ANALYSIS REPORT



Machine Id

DHP 15W40 DRUM

Component

1 New (Unused) Oil

PETRO CANADA DURON HP 15W40 (--- GA

DIAGNOSIS

Recommendation

This is the baseline readout on this new (unused) oil. The fluid is suitable for service. We recommend an early resample to monitor this condition. NOTE: New oils are not generally filtered or guaranteed to a certain cleanliness code. We advise that you verify the target cleanliness code for your application and recommend the use of a portable filter cart to fill any system with a target code below the ISO cleanliness code of this product.

Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The system cleanliness is above the acceptable limit for the target ISO 4406 cleanliness code.

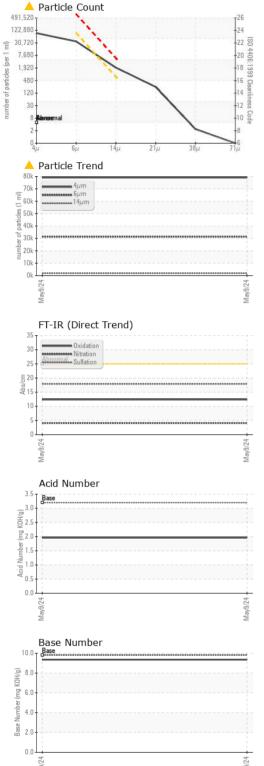
Fluid Condition

Indicate the oil is basically the same as the reference oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for service. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

AL)				May/2024		
~L)				may.co.		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PC368401		
Sample Date		Client Info		09 May 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
CONTAMINATI	ON	method	limit/base	current	history1	history2
Water		WC Method		NEG		
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>5	<1		
Chromium	ppm	ASTM D5185(m)	>5	0		
Nickel	ppm	ASTM D5185(m)	>5	0		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)	>5	0		
Aluminum	ppm	ASTM D5185(m)	>5	<1		
Lead	ppm	ASTM D5185(m)	>5	0		
Copper	ppm	ASTM D5185(m)	>5	0		
Tin	ppm	ASTM D5185(m)	>5	0		
Antimony	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	2		
Barium	ppm	ASTM D5185(m)	0	0		
Molybdenum	ppm	ASTM D5185(m)	60	58		
Manganese	ppm	ASTM D5185(m)	0	0		
Magnesium	ppm	ASTM D5185(m)	1010	1010		
Calcium	ppm	ASTM D5185(m)	1070	1020		
Phosphorus	ppm	ASTM D5185(m)	1150	1080		
Zinc	ppm	ASTM D5185(m)	1270	1210		
Sulfur	ppm	ASTM D5185(m)	2060	2800		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	3		
Sodium	ppm	ASTM D5185(m)		1		
Potassium	ppm	ASTM D5185(m)	>20	0		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		0		
Nitration	Abs/cm	ASTM D7624*		4.1		
Sulfation	Abs/.1mm	ASTM D7415*		17.9		



OIL ANALYSIS REPORT



FLUID CLEANL	INESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		79096		
Particles >6µm		ASTM D7647	>80000	31409		
Particles >14µm		ASTM D7647	>640	1769		
Particles >21µm		ASTM D7647	>160	208		
Particles >38µm		ASTM D7647	>40	2		
Particles >71µm		ASTM D7647	>10	0		
Oil Cleanliness		ISO 4406 (c)	>/23/16	<u>23/22/18</u>		
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*		12.4		
Acid Number (AN)	mg KOH/g	ASTM D974*	3.2	1.96		
Base Number (BN)	mg KOH/g	ASTM D2896*	9.8	9.35		
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE		
Yellow Metal	scalar	Visual*	NONE	NONE		
Precipitate	scalar	Visual*	NONE	NONE		
Silt	scalar	Visual*	NONE	NONE		
Debris	scalar	Visual*	NONE	NONE		
Sand/Dirt	scalar	Visual*	NONE	NONE		
Appearance	scalar	Visual*	NORML	NORML		
Odor	scalar	Visual*	NORML	NORML		
Emulsified Water	scalar	Visual*		NEG		
Free Water	scalar	Visual*		NEG		
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	118.2	116		
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	15.3		
Viscosity Index (VI)	Scale	ASTM D2270*	139	137		
SAMPLE IMAG	ES	method	limit/base	current	history1	history2
Color					no image	no image
Bottom					no image	no image





Laboratory Sample No.

: PC368401 Lab Number : 02634941 Unique Number : 5776094

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9

Received : 13 May 2024 **Tested** : 21 May 2024 Diagnosed

: 21 May 2024 - Kevin Marson

CA NOM 1S3 Test Package : IND 2 (Additional Tests: FT-IR, ICP-NewOil, KV100, PrtCount, TAN Man, CtBNt4cVIIKEVIN BUCHANAN kevin@davemoorefuels.com

DAVE MOORE FUELS

315 MAIN STREET NORTH

To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

T: (519)235-0853 F: (519)235-0821

EXETER, ON