

OIL ANALYSIS REPORT

VISCOSITY



DHKCEBBSOM000290

Component Discol Engin

Diesel Engine

DOOSAN 15W40 (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. The fluid was specified as DOOSAN 15W40, however, a fluid match indicates that this fluid is SAE 30 Diesel Engine Oil. Please confirm the oil type and grade on your next sample.

Wear

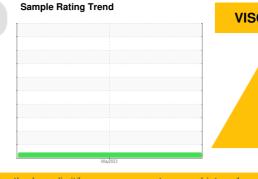
Metal levels are typical for a components first oil change.

Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

Fluid Condition

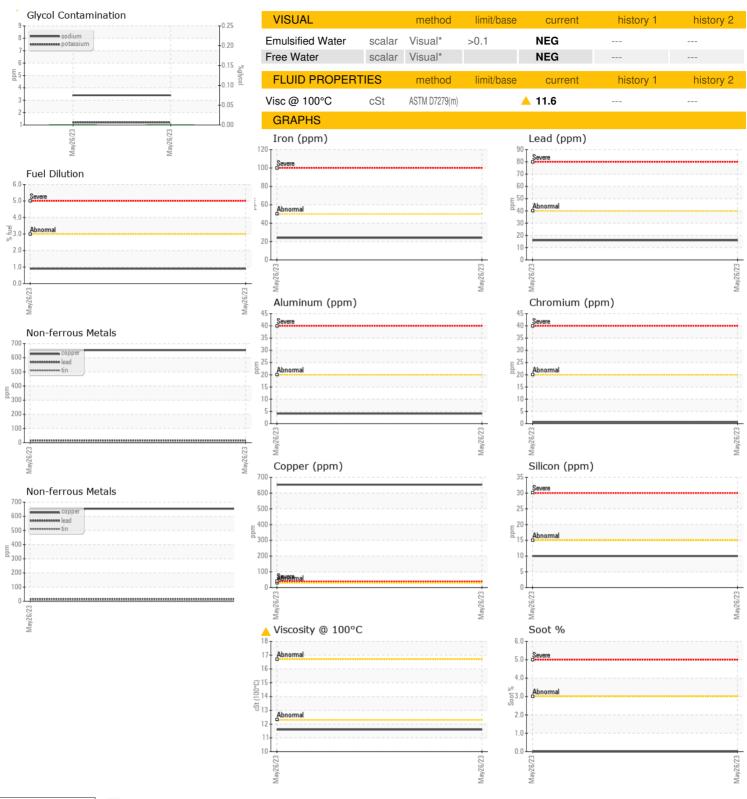
Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The condition of the oil is acceptable for the time in service.



SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		WC0811263		
Sample Date		Client Info		26 May 2023		
Machine Age	hrs	Client Info		493		
Oil Age	hrs	Client Info		493		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
WEAR METALS		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185(m)	>50	24		
Chromium	ppm	ASTM D5185(m)	>20	<1		
Nickel	ppm	ASTM D5185(m)	>5	<1		
Titanium	ppm	ASTM D5185(m)		<1		
Silver	ppm	ASTM D5185(m)	>3	0		
Aluminum	ppm	ASTM D5185(m)	>20	4		
Lead	ppm	ASTM D5185(m)	>40	16		
Copper	ppm	ASTM D5185(m)	>30	653		
Tin	ppm	ASTM D5185(m)	>15	<1		
Antimony	ppm	ASTM D5185(m)		<1		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185(m)		6		
Barium	ppm	ASTM D5185(m)		2		
Molybdenum	ppm	ASTM D5185(m)		4		
Manganese	ppm	ASTM D5185(m)		3		
Magnesium	ppm	ASTM D5185(m)		11		
Calcium	ppm	ASTM D5185(m)		2352		
Phosphorus	ppm	ASTM D5185(m)		996		
Zinc	ppm	ASTM D5185(m)		1101		
Sulfur	ppm	ASTM D5185(m)		3290		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS		method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185(m)	>15	10		
Sodium	ppm	ASTM D5185(m)		3		
Potassium	ppm	ASTM D5185(m)	>20	1		
Fuel	%	ASTM D7593*	>3.0	0.9		
Glycol	%	ASTM D7922*		0.0		
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	ASTM D7844*	>3	0		
Nitration	Abs/cm	ASTM D7624*	>20	6.5		
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.4		
FLUID DEGRADA	TION	method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	ASTM D7414*	>25	16.8		



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CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : WC0811263

: 02563044 : 5592085

Received Diagnosed

: 09 Jun 2023 : 12 Jun 2023 Diagnostician : Kevin Marson

Test Package : MOB 1 (Additional Tests: FuelDilution, Glycol, PercentFuel) 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.

C.G. EQUIPMENT

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