

OIL ANALYSIS REPORT

Machine Id CR259

Component **Diesel Engine**

DIESEL ENGINE OIL SAE 5W40 (--- GAL)

Sample Rating Trend NORMAL

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The condition of the oil is acceptable for the time in service.

				Feb 2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PC0078303		
Sample Date		Client Info		12 Feb 2024		
Machine Age	hrs	Client Info		737		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METAL	_S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	5		
Chromium	ppm	ASTM D5185(m)	>20	<1		
Nickel	ppm	ASTM D5185(m)	>4	<1		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)	>3	0		
Aluminum	ppm	ASTM D5185(m)	>20	8		
Lead	ppm	ASTM D5185(m)	>40	<1		
Copper	ppm	ASTM D5185(m)	>330	<1		
Tin	ppm	ASTM D5185(m)	>15	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)	250	48		
Barium	ppm	ASTM D5185(m)	10	0		
Molybdenum	ppm	ASTM D5185(m)	100	55		
Manganese	ppm	ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m)	450	1053		
Calcium	ppm	ASTM D5185(m)	3000	805		
Phosphorus	ppm	ASTM D5185(m)	1150	979		
Zinc	ppm	ASTM D5185(m)	1350	1128		
Sulfur	ppm	ASTM D5185(m)	4250	2872		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	2		
Sodium	ppm	ASTM D5185(m)	>44	4		
Potassium	ppm	ASTM D5185(m)	>20	<1		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0		
Nitration	Abs/cm	ASTM D7624*	>20	7.6		
Cultation	Aba/tm-	ACTM D744F*	. 20	00.0		

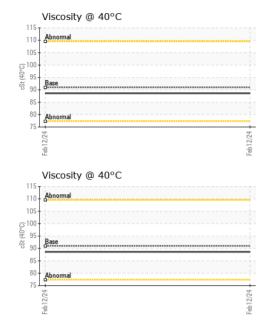
Sulfation

Abs/.1mm ASTM D7415* >30

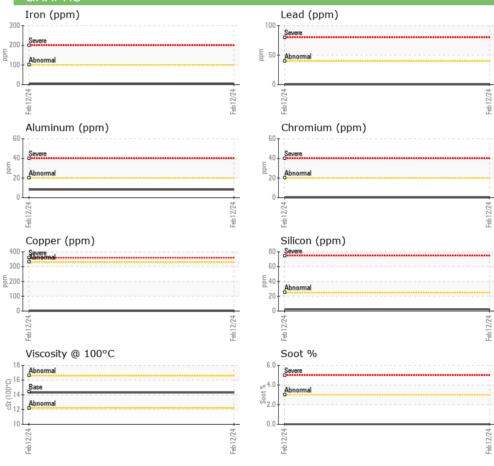
20.2



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FLUID DEGRAD	DATION	method	limit/base	current	history1	history2		
Oxidation	Abs/.1mm	ASTM D7414*	>25	18.5				
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*	>0.2	NEG				
Free Water	scalar	Visual*		NEG				
FLUID PROPE	RTIES	method	limit/base	current	history1	history2		
Visc @ 40°C	cSt	ASTM D7279(m)	91	88.6				
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	14.3				
Viscosity Index (VI)	Scale	ASTM D2270*	164	167				
GRAPHS								
Iron (ppm)	Lead (ppm)							





CALA ISO 17025:2017 Accredited Laboratory

Laboratory

Sample No. Unique Number : 5734514

Lab Number : 02617404

: PC0078303

Received **Tested**

: 22 Feb 2024 Diagnosed Test Package : MOB 1 (Additional Tests: KV40, VI, Visual)

: 22 Feb 2024 : 22 Feb 2024 - Wes Davis

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Green Infrastructure and Partners Inc (GIPI) - 286 - Shoring & Foundations 151 Ram Forest Rd, Stouffville, ON CA L4A 2G8 Contact: Shannon Abbott

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.

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