

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

NO UNIT WC0957966

Diesel Engine

{not provided} (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

Metal levels are typical for a components first oil change.

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.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0957966		
Sample Date		Client Info		03 Jul 2024		
Machine Age	hrs	Client Info		22		
Oil Age	hrs	Client Info		22		
Oil Changed		Client Info		Not Changd		
Sample Status				NORMAL		
CONTAMINATION	J	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
		and the set	Part la racia		In the transmission	history O
WEAR METALS		method	limit/base	current	nistory i	nistory2
Iron	ppm	ASTM D5185(m)	>150	10		
Chromium	ppm	ASTM D5185(m)	>20	<1		
Nickel	ppm	ASTM D5185(m)	>2	0		
Titanium	ppm	ASTM D5185(m)	>2	0		
Silver	ppm	ASTM D5185(m)	>2	0		
Aluminum	ppm	ASTM D5185(m)	>20	6		
Lead	ppm	ASTM D5185(m)	>40	10		
Copper	ppm	ASTM D5185(m)	>30	15		
Tin	ppm	ASTM D5185(m)	>15	6		
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)		263		
Barium	ppm	ASTM D5185(m)		5		
Molybdenum	ppm	ASTM D5185(m)		101		
Manganese	ppm	ASTM D5185(m)		4		
Magnesium	ppm	ASTM D5185(m)		630		
Calcium	ppm	ASTM D5185(m)		1414		
Phosphorus	ppm	ASTM D5185(m)		713		
Zinc	ppm	ASTM D5185(m)		797		
Sulfur	ppm	ASTM D5185(m)		2141		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	32		
Sodium	ppm	ASTM D5185(m)		6		
Potassium	ppm	ASTM D5185(m)	>20	23		
Glycol	%	ASTM D7922*		0.0		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0		
Nitration	Abs/cm	ASTM D7624*	>20	5.2		
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.1		



OIL ANALYSIS REPORT

400-

300

튭 200 ·

100-0

> 60-40

20

80

60

E 40

20-0

18 ن 16 ê_14-5 12. 10







FLUID DEGRADA		method	iinit/base	current	riistory i	nistory2		
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.9				
VISUAL		method	limit/base	current	history1	history2		
White Metal	scalar	Visual*	NONE	VLITE				
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 PROPERTI	IES	method	limit/base	current	history1	history2		
Visc @ 40°C	cSt	ASTM D7279(m)		97.9				
Visc @ 100°C	cSt	ASTM D7279(m)		13.4				
Viscosity Index (VI)	Scale	ASTM D2270*		136				
GRAPHS								
Iron (ppm)			100	Lead (ppm)				
Severe			-	Severe				
D0 Abnormal			<u>E</u> 50	Abnormal				
DO								
10			54	54 L		24 -		
Jul3/			Jul3/	Jul3/		Jul3/		
Aluminum (ppm) Chromium (ppm)								
Severe			60] 				
40 -			40) - Gevere				
20 - Abnormal			20	Abnormal				
) L				
Jul3/24			Jul3/24	Jul3/24		Jul3/24		
Copper (ppm)				Silicon (nom)				
			80	Severe				
			- 60)				
40 Abnormal			6d.40	Abnormal				
			20					
3/24			3/24 -	3/24 -		3/24 -		
ар Г			ηſ	Ju		ηΓ		
Viscosity @ 100°C			6.0	Soot %				
Abnormal 16 -				Severe				
14			_ک و4.0	Abnormal		1		
12 - Abnormal			⁵⁵ 2.0)				
10 Li) 		4		
Jul3/2			Jul3/2	Jul3/2		Jul3/2		

MARINDUSTRIAL Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CALA : WC0957966 Received : 05 Jul 2024 4090 Ridgeway Drive, Unit 8 Sample No. Lab Number : 02645783 Tested : 08 Jul 2024 Mississauga, ON ISO 17025:2017 Accredited Laboratory Unique Number : 5803322 Diagnosed : 08 Jul 2024 - Kevin Marson CA L5L 5X5 Test Package : MOB 1 (Additional Tests: Glycol, KV40, VI, Visual) Contact: Chantal Kelly ckelly@marind.ca To discuss this sample report, contact Customer Service at 1-800-268-2131. T: (905)607-5052 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. F: (905)607-8013

Report Id: VIK409MIS2 [WCAMIS] 02645783 (Generated: 07/08/2024 19:23:40) Rev: 1

Contact/Location: Chantal Kelly - VIK409MIS2