

OIL ANALYSIS REPORT

921010-560 AUTOCAR ACX64 FRONT LOAD

Diesel Engine

CHEVRON DELO 400 XLE 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

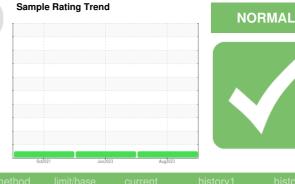
All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

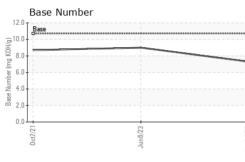
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

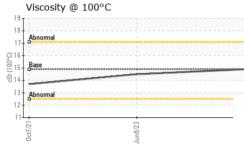


SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0068308	GFL0068310	GFL0032349
Sample Date		Client Info		14 Aug 2023	08 Jun 2023	07 Oct 2021
Machine Age	hrs	Client Info		0	0	21627
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	N/A	Changed
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 METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	43	12	24
Chromium	ppm	ASTM D5185m	>20	6	<1	2
Nickel	ppm	ASTM D5185m	>4	۰ <1	0	<1
Titanium	ppm	ASTM D5185m	2.1	0	0	1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	4	<1	6
Lead	ppm	ASTM D5185m	>40	۔ <1	<1	3
Copper	ppm		>330	<1	<1	1
Tin	ppm	ASTM D5185m	>15	0	0	0
Antimony	ppm	ASTM D5185m	210			1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
	ррш		11 1.0		-	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		4	6	11
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		58	61	49
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		871	918	795
Calcium	ppm	ASTM D5185m		1060	1100	1119
Phosphorus	ppm	ASTM D5185m	760	989	1016	646
Zinc	ppm		830	1136	1219	991
Sulfur	ppm	ASTM D5185m	2770	2857	3353	3812
CONTAMINAN	IS	method	limit/base	current	history1	history2
Silicon	I S ppm	ASTM D5185m	limit/base >25	current 6	5	6
					5 <1	
Silicon	ppm	ASTM D5185m	>25	6	5	6
Silicon Sodium	ppm ppm	ASTM D5185m ASTM D5185m	>25	6 <1	5 <1	6 12
Silicon Sodium Potassium	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>25 >20	6 <1 2	5 <1 <1	6 12 0
Silicon Sodium Potassium INFRA-RED	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844	>25 >20 limit/base	6 <1 2 current	5 <1 <1 history1	6 12 0 history2
Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844	>25 >20 limit/base >3	6 <1 2 current 2.8	5 <1 <1 history1 1.1	6 12 0 history2 0.8
Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624	>25 >20 limit/base >3 >20	6 <1 2 current 2.8 8.4	5 <1 <1 history1 1.1 6.4	6 12 0 history2 0.8 9
Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	>25 >20 limit/base >3 >20 >30	6 <1 2 current 2.8 8.4 22.3	5 <1 <1 history1 1.1 6.4 20.1	6 12 0 history2 0.8 9 20.4



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
Jun8/23	Aug14/23	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
nn	Aug1	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	ERTIES	method	limit/base	current	history1	history2
		Visc @ 100°C	cSt	ASTM D445	14.9	14.9	14.5	13.7
		GRAPHS						
		Ferrous Alloys						
8/23		40 - iron			1			
Jun8/23		35 - nickel		/				
		30-		/				
		E 25 20		/				
		15	_ /					
		10-	\sim					
		5		A CONTRACTOR DATE OF THE OWNER OF	TATE OF A DESCRIPTION OF A			
		0	C)	ATT I THE REAL PROPERTY OF THE				
		0ct7/21	Jun8/23		Aug14/23			
					Au			
		Non-ferrous Met	als					
		copper						
		8 - sessesses lead						
		6						
		8 4						
		Anna and an and a second se						
		2						
		0	5/23		1/23			
			Jun8/23		Aug14/23			
		Viscosity @ 100°				Base Number		
		Uiscosity @ 100°			Brever 12.0•	Base Number	-	
		Viscosity @ 100°			12.0- 10.0-	T :	-	
		Viscosity @ 100°			12.0- 10.0-	T :	-	
		Viscosity @ 100°			12.0- 10.0-	T :		
		Viscosity @ 100°			12.0- 10.0-	T :		
		Viscosity @ 100°			12.0- 10.0-	T :		
		Viscosity @ 100°			12.0 10.0 (0)HOX 8.0 balance (und balance) balance (und balance) balance (und balance) balance (und balance) balance (und balance) balance (und balance) balance (und balance) balance (und balance) balance (und balance) balance (und balance) balance (und balance) balance) balance (und balance) balance) balance (und balance) balance) balance (und balance) balance	T :		
		Viscosity @ 100°	°C		12.0 10.0 (0,HO 8.0) 20,0 20,0 20,0 20,0 0,0	Base		
		Viscosity @ 100°	°C		12.0 10.0 (0,HO 8.0) 20,0 20,0 20,0 20,0 0,0	Base		
		Viscosity @ 1000			12.0 (0)HOX B00 (0)HOX	T :	Junb223	
		Viscosity @ 100°	PC	Son Ave. Co	12.0- 10	Base 0et/11	Jun8/23	
	aboratory	Viscosity @ 100°	PC		12.0- 10	Base 0et/11	EZQuing	and Rapids Hauli
NAR Sa		Viscosity @ 100°	°C EZgung	d :15/	12.0- 10	Base 0et/11	EZQuing	and Rapids Hauli n Nash Ave S
REDITED Sa NG LABORATORY Ur	aboratory ample No. ab Number nique Number	Viscosity @ 1000 Viscosity @ 1000 Viscosity @ 1000 Abnomal Abnomal Difference E WearCheck USA - : GFL0068308 : 05924683 : 10604630	• 501 Madia Received	d : 157 ed : 167	12.0- 10	Base 0et/11	ironmental - 642- Gra 5826 Alde	n Nash Ave S Lowell, N US 4933
NE DE LE CONTRE DE	aboratory ample No. ab Number nique Number est Package	Viscosity @ 1000 Viscosity @ 1000 Viscosity @ 1000 Abnormal Abnormal 10 10 10 10 10 10 10 10 10 10	501 Madia Received Diagnost	d : 157 ed : 167 tician : Sea	12.0- 10.0- (0)HOX 8.0- 10.0- (0)HOX 8.0- 10.0- (0)HOX 8.0- 10.0- (0)HOX 8.0- 10.0- (0)HOX 8.0- 2.0- 0.0- (0)HOX 8.0- 2.0- 0.0- (0)HOX 8.0- 2.0- 0.0- (0)HOX 8.0- 2.0- 0.0- (0)HOX 8.0- 2.0- 0.0- (0)HOX 8.0- 2.0- 0.0- (0)HOX 8.0- 2.0- 0.0- (0)HOX 8.0- 0.0- (0)HOX 8.0- (0)HOX 8.0- (Base 0et/11	ironmental - 642- Gra 5826 Alde Contac	n Nash Ave S Lowell, I

Submitted By: TECHNICIAN ACCOUNT