

OIL ANALYSIS REPORT

GUAY SON/Yavaros [CONHER] Machine Id CATERPILLAR Pacifico industrial PISA2 MP Component

Diesel Engine

HEVRON DELO 400 SDE SAE 15W40 (100 LTR)



	CHEVRON DEL
DIAGNOSIS	
Recommendation	
We recommend you set	rvice the filters on this

component. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is an abnormal amount of solids and carbon present in the oil.

Fluid Condition

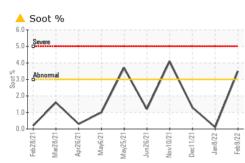
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

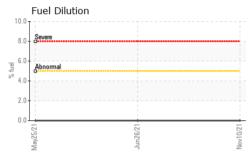
O a market Nk market an				1/1 0000005	1/1 0000050			
Sample Number		Client Info		KL0009065	KL0009056	KL0009022		
Sample Date	la un	Client Info		09 Feb 2022	08 Jan 2022	11 Dec 2021		
Machine Age	hrs	Client Info Client Info		33900	33600	33300 520		
Oil Age Oil Changed	hrs	Client Info		1120 Not Changed	820 Not Changd	Not Changd		
Sample Status		Chefit Inio		Not Changd ABNORMAL	NORMAL	NORMAL		
				ABNORMAL				
CONTAMINATIO	N	method	limit/base	current	history1	history2		
Water		WC Method	>0.2	NEG	NEG	NEG		
Glycol		WC Method		NEG	NEG	NEG		
WEAR METALS		method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185m	>100	52	25	21		
Chromium	ppm	ASTM D5185m	>20	1	<1	<1		
Nickel	ppm	ASTM D5185m	>2	0	0	0		
Titanium	ppm	ASTM D5185m	>2	0	0	<1		
Silver	ppm	ASTM D5185m	>2	<1	0	<1		
Aluminum	ppm	ASTM D5185m	>25	4	<1	2		
Lead	ppm	ASTM D5185m	>40	3	<1	<1		
Copper	ppm	ASTM D5185m	>330	27	28	44		
Tin	ppm	ASTM D5185m	>15	1	<1	1		
Antimony	ppm	ASTM D5185m		<1	0	0		
Vanadium	ppm	ASTM D5185m		0	0	0		
Cadmium	ppm	ASTM D5185m		0	0	0		
ADDITIVES		method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185m		62	213	208		
Barium	ppm	ASTM D5185m		0	0	0		
Molybdenum	ppm	ASTM D5185m		109	118	120		
Manganese	ppm	ASTM D5185m		1	<1	<1		
Magnesium	ppm	ASTM D5185m		710	725	710		
Calcium	ppm	ASTM D5185m		1508	1651	1610		
Phosphorus	ppm	ASTM D5185m	760	652	758	689		
Zinc	ppm	ASTM D5185m	800	817	864	811		
Sulfur	ppm	ASTM D5185m	3000	2042	2452	1976		
CONTAMINANTS	;	method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>25	6	6	7		
Sodium	ppm	ASTM D5185m		1	0	0		
Potassium	ppm	ASTM D5185m	>20	0	<1	<1		
Fuel	%	ASTM D3524	>5	<1.0	<1.0	<1.0		
INFRA-RED		method	limit/base	current	history1	history2		
Soot %	%	*ASTM D7844	>3	A 3.5	0.1	1.3		
Nitration	Abs/cm	*ASTM D7624	>20	12.3	9.7	8.2		
Sulfation	Abs/.1mm	*ASTM D7415	>30	31.9	20.8	26.2		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2		
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.9	15.7	17.2		
Base Number (BN)	mg KOH/g	ASTM D2896	10	5.6	8.9	8.3		
4·17·34) Rev: 1				Submitted By: EDUARDO GARCIA				

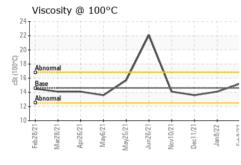
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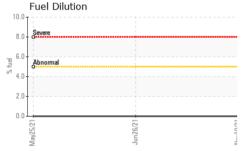


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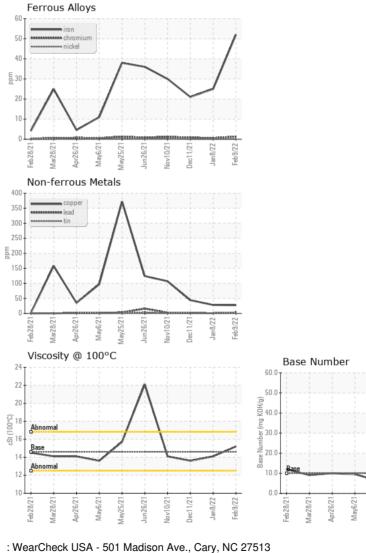








VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.6	15.2	14.1	13.6
GRAPHS						



Jan 8/22 n26/21 Jov10/21 -eb9/22 av25/21 Dec11/21 CONOR JUAREZ 348 HERMOSILLO, MX 83140 Contact: EDUARDO GARCIA egarcia.comsa@gmail.com T: (526)622-1581 x:81 F: x:



Unique Number : 9852655 Diagnosed : 16 Feb 2022 - Don Baldridge Test Package : FLEET (Additional Tests: FuelDilution) Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Received

Tested

: 15 Feb 2022

: 16 Feb 2022

Laboratory

Sample No.

Lab Number : 05468442

: KL0009065

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