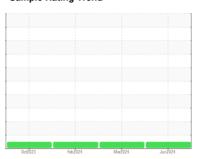


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



YVONNE S Component

Component Main Engine

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

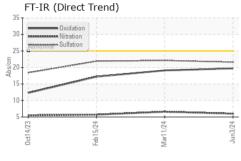
Fluid Condition

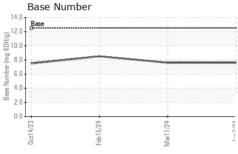
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

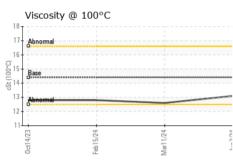
0 (GAL)		0ct202:	3 Feb 2024	Mar2024 J	lun2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0922449	WC0759617	WC0759622
Sample Date		Client Info		03 Jun 2024	11 Mar 2024	15 Feb 2024
Machine Age	hrs	Client Info		9141	8185	0
Oil Age	hrs	Client Info		0	366	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	N	method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>75	2	6	5
Chromium	ppm	ASTM D5185m	>8	0	<1	0
Nickel	ppm	ASTM D5185m	>2	0	<1	<1
Titanium	ppm	ASTM D5185m	>3	6	5	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>15	2	3	2
Lead	ppm	ASTM D5185m	>18	2	9	15
Copper	ppm	ASTM D5185m	>80	<1	2	1
Tin	ppm	ASTM D5185m	>14	0	1	2
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	151	215	352	495
Barium	ppm	ASTM D5185m	0.4	0	1	0
Molybdenum	ppm	ASTM D5185m	250	68	89	115
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	0	582	544	556
Calcium	ppm	ASTM D5185m	2046	1711	2032	2339
Phosphorus	ppm	ASTM D5185m	1043	708	785	879
Zinc	ppm	ASTM D5185m	943	861	913	1092
Sulfur	ppm	ASTM D5185m	5012	3262	3210	3314
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	4	6	6
Sodium	ppm	ASTM D5185m	>75	1	0	2
Potassium	ppm	ASTM D5185m	>20	2	3	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	6.0	6.6	5.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.6	22.1	21.9
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.7	19.1	17.2
Base Number (BN)	mg KOH/g	ASTM D2896	12.5	7.6	7.6	8.5



OIL ANALYSIS REPORT



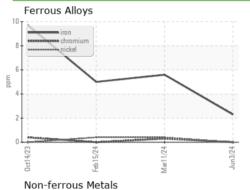


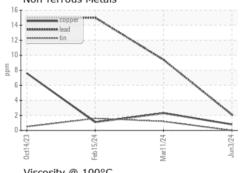


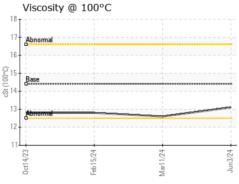
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

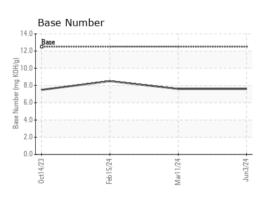
FLUID PROPER	TIES	method				history2
Visc @ 100°C	cSt	ASTM D445	14.4	13.1	12.6	12.8

GRAPHS













Laboratory Sample No.

: WC0922449 Lab Number : 06219089 Unique Number : 11097286

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 24 Jun 2024 **Tested** : 25 Jun 2024

Diagnosed : 25 Jun 2024 - Wes Davis

CONVENT, LA US 70723 Contact: GREG JOSEY gjosey@associatedterminals.com

ASSOCIATED TERMINALS - CRANE

Test Package : FLEET Certificate 12367 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)

F: (225)562-3515 Contact/Location: GREG JOSEY - STJCONKL

T: