



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
90220
 Component
Diesel Engine
 Fluid
CHEVRON 15W40 (--- QTS)

RECOMMENDATION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0857125	WC0882638	WC0846397
Sample Date		Client Info		08 Jul 2024	05 Mar 2024	07 Dec 2023
Machine Age	hrs	Client Info		729	627	555
Oil Age	hrs	Client Info		200	250	250
Filter Age	hrs	Client Info		200	250	250
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ATTENTION

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>100	32	6	5
Chromium	ppm	ASTM D5185m	>20	12	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		2	0	<1
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	15	2	2
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	2	<1	<1
Tin	ppm	ASTM D5185m	>15	1	1	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

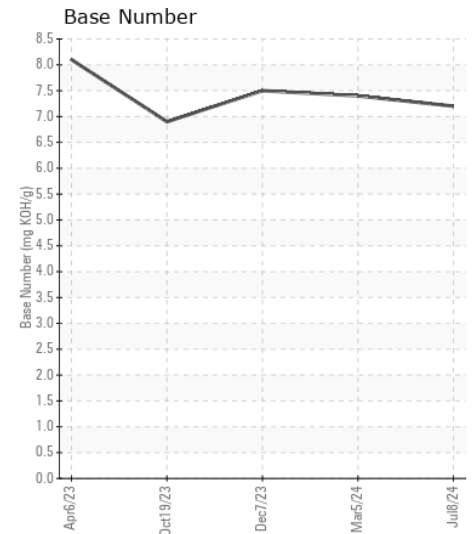
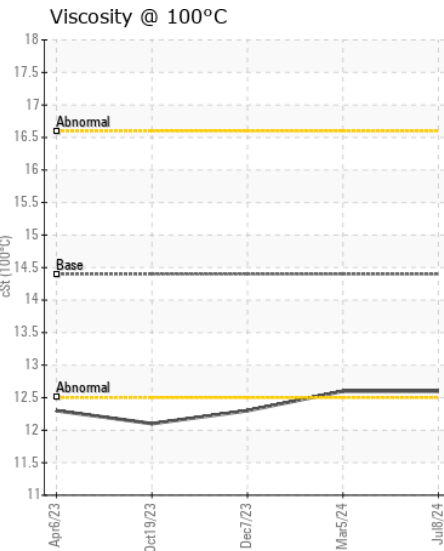
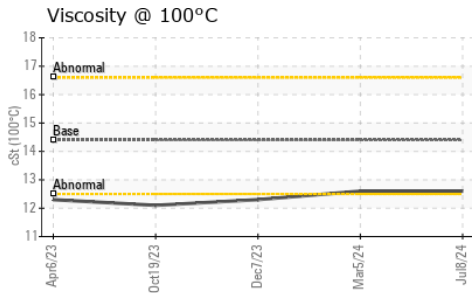
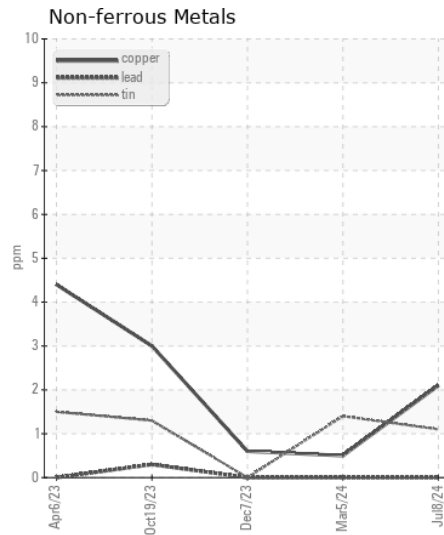
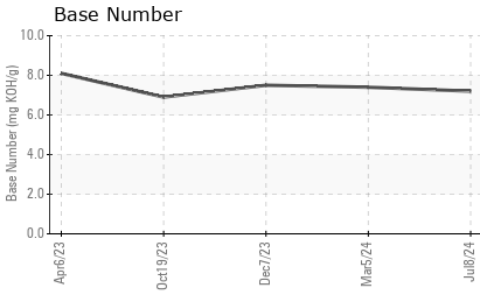
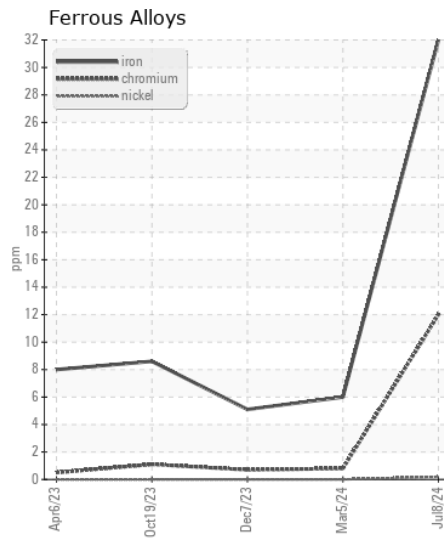
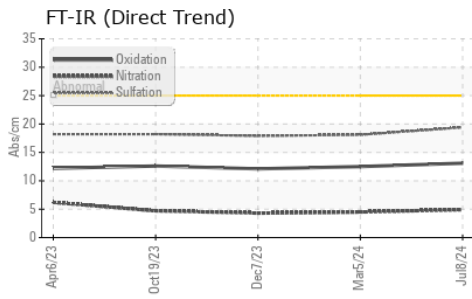
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	31	6	6
Potassium	ppm	ASTM D5185m	>20	4	0	1
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	4.9	4.5	4.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.4	18.1	17.9
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

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.

Sodium	ppm	ASTM D5185m	>50	<1	0	1
Boron	ppm	ASTM D5185m		438	375	366
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		82	82	84
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m		346	436	366
Calcium	ppm	ASTM D5185m		1354	1453	1188
Phosphorus	ppm	ASTM D5185m		1007	1006	901
Zinc	ppm	ASTM D5185m		1153	1243	1065
Sulfur	ppm	ASTM D5185m		2989	3547	3020
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.1	12.5	12.1
Base Number (BN)	mg KOH/g	ASTM D2896		7.2	7.4	7.5
Visc @ 100°C	cSt	ASTM D445	14.4	12.6	12.6	12.3



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0857125 **Received** : 11 Jul 2024
Lab Number : 06233043 **Tested** : 11 Jul 2024
Unique Number : 11116536 **Diagnosed** : 11 Jul 2024 - Wes Davis
Test Package : CONST (Additional Tests: TBN)

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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)