



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
KENNY EADS (S/N 79F1-1123)
Component
Port Main Engine
Fluid
CHEVRON DELO 710 LS (300 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		MW0069637	MW0066466	MW0055737
Sample Date		Client Info		14 Jul 2024	15 May 2024	15 Mar 2024
Machine Age	hrs	Client Info		25504	24124	22666
Oil Age	hrs	Client Info		4470	3092	1634
Filter Age	hrs	Client Info		112	1224	1024
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>75	14	16	14
Chromium	ppm	ASTM D5185m	>8	1	1	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m	>3	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>15	3	2	1
Lead	ppm	ASTM D5185m	>18	2	3	2
Copper	ppm	ASTM D5185m	>80	13	13	12
Tin	ppm	ASTM D5185m	>14	3	3	2
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

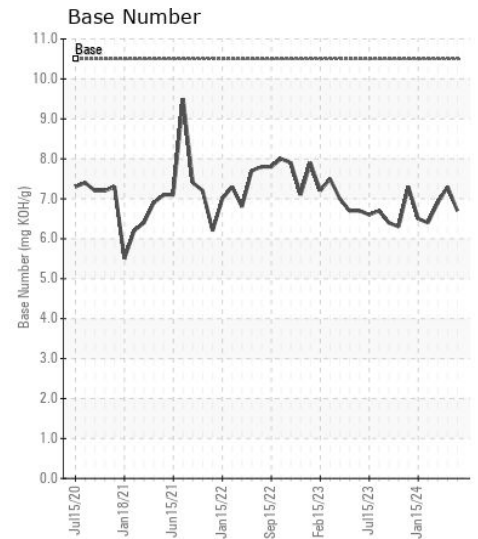
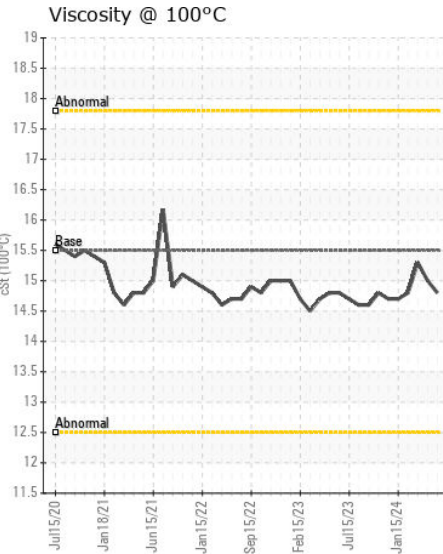
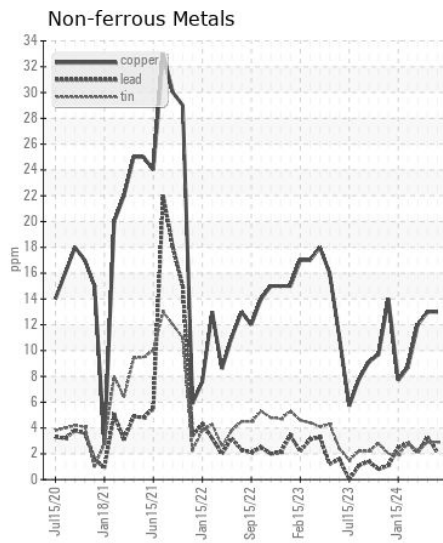
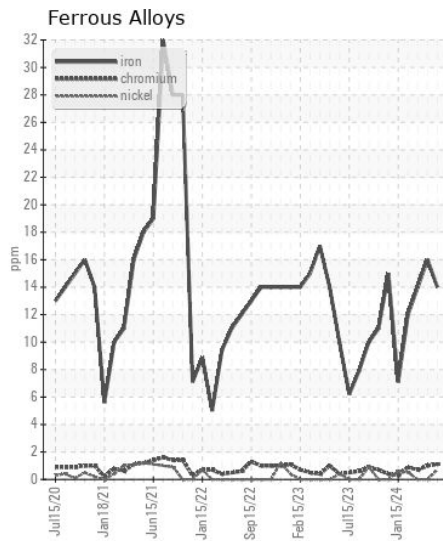
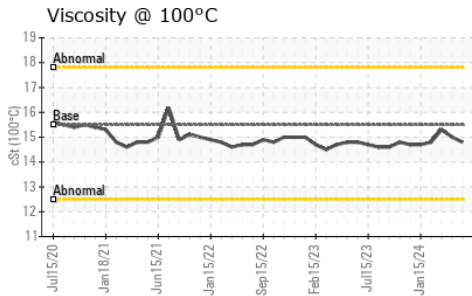
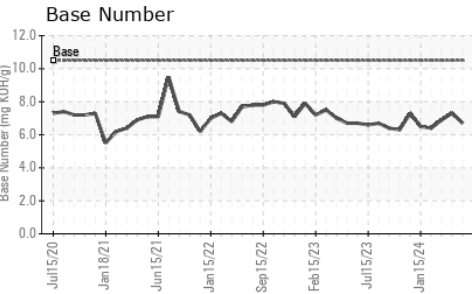
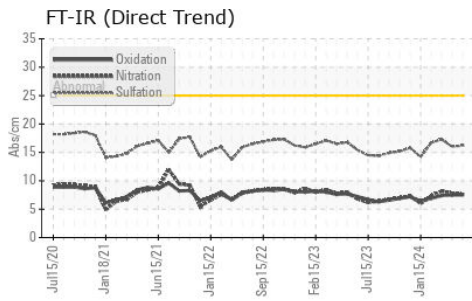
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	3	3	2
Potassium	ppm	ASTM D5185m	>20	4	6	12
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
Soot %	%	*ASTM D7844	>3	1.1	1.2	2
Nitration	Abs/cm	*ASTM D7624	>20	7.6	7.8	8.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	16.2	16.0	17.3
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

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	>75	0	3	3
Boron	ppm	ASTM D5185m		38	44	38
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		47	50	48
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		10	14	14
Calcium	ppm	ASTM D5185m		3425	3976	3705
Phosphorus	ppm	ASTM D5185m		23	5	0
Zinc	ppm	ASTM D5185m		4	0	<1
Sulfur	ppm	ASTM D5185m		2148	2850	2710
Oxidation	Abs/.1mm	*ASTM D7414	>25	7.5	7.5	7.4
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	6.7	7.3	6.9
Visc @ 100°C	cSt	ASTM D445	15.5	14.8	15.0	15.3



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : MW0069637
Lab Number : 06238956
Unique Number : 11127790
Test Package : MAR 2

Received : 17 Jul 2024
Tested : 18 Jul 2024
Diagnosed : 18 Jul 2024 - Wes Davis

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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)