



Area

PB SHAH

Machine Id

[PB SHAH] 007 566553-7

Component

Port Genset

Fluid

CHEVRON DELO 400 LE 15W40 (7 GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		MW0066048	MW0066121	MW0066122
Sample Date		Client Info		29 Jun 2024	19 May 2024	16 Apr 2024
Machine Age	hrs	Client Info		1254	839	395
Oil Age	hrs	Client Info		415	426	395
Filter Age	hrs	Client Info		0	426	0
Oil Changed		Client Info		N/A	Changed	N/A
Filter Changed		Client Info		N/A	Changed	N/A
Sample Status				ATTENTION	ATTENTION	ATTENTION

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	11	10	30
Chromium	ppm	ASTM D5185m	>4	<1	0	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	3
Silver	ppm	ASTM D5185m	>5	0	0	0
Aluminum	ppm	ASTM D5185m	>12	2	2	2
Lead	ppm	ASTM D5185m	>17	0	0	2
Copper	ppm	ASTM D5185m	>70	2	9	91
Tin	ppm	ASTM D5185m	>15	0	0	0
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

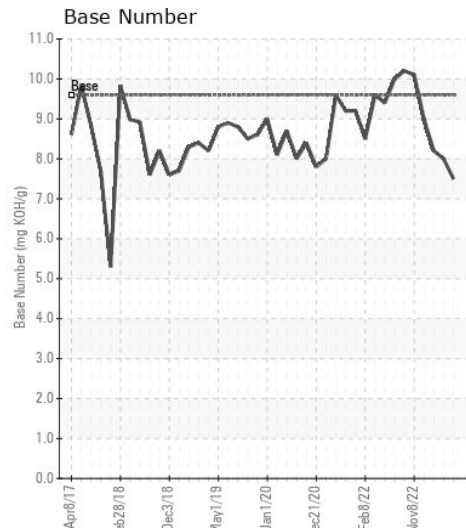
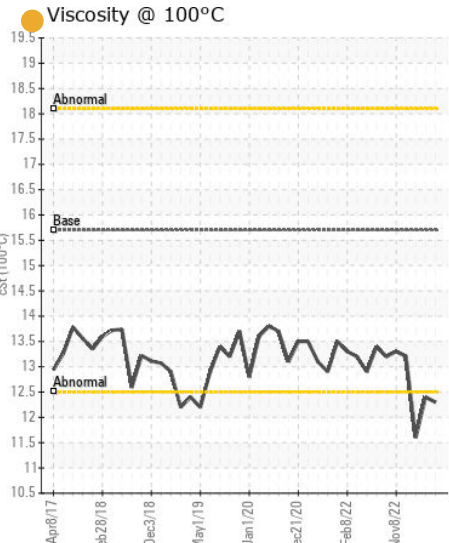
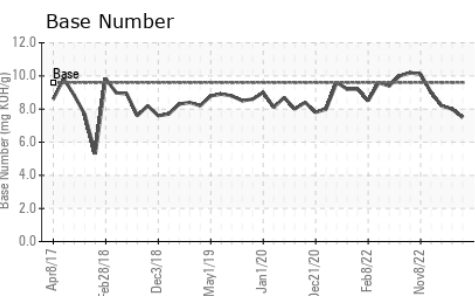
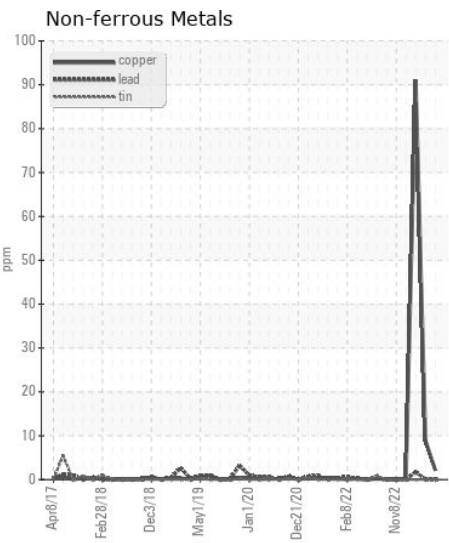
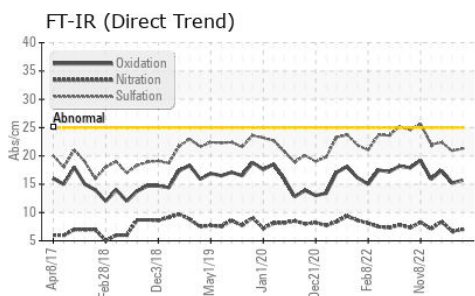
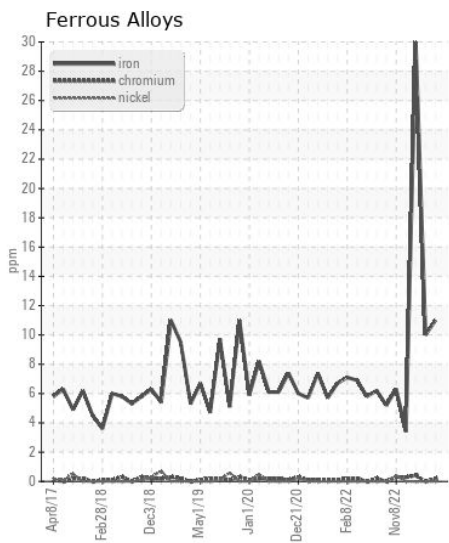
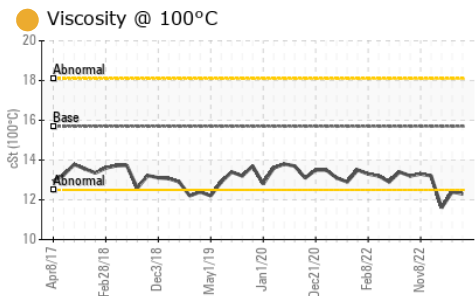
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	6	7	20
Potassium	ppm	ASTM D5185m	>20	2	<1	0
Fuel		WC Method	>4.0	<1.0	<1.0	1.8
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844		0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	7.0	6.7	8.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.3	20.9	22.4
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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Sodium	ppm	ASTM D5185m		2	<1	3
Boron	ppm	ASTM D5185m		306	327	289
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		91	96	118
Manganese	ppm	ASTM D5185m		6	3	7
Magnesium	ppm	ASTM D5185m		445	418	718
Calcium	ppm	ASTM D5185m		1671	1511	1693
Phosphorus	ppm	ASTM D5185m	1200	991	840	781
Zinc	ppm	ASTM D5185m	1300	1180	1105	920
Sulfur	ppm	ASTM D5185m	3200	3660	3240	3220
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.7	15.2	17.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.6	7.5	8.0	8.2
Visc @ 100°C	cSt	ASTM D445	15.7	12.3	12.4	11.6



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : MW0066048
Lab Number : 06234348
Unique Number : 11123182
Test Package : MAR 2
Received : 11 Jul 2024
Tested : 12 Jul 2024
Diagnosed : 14 Jul 2024 - Don Baldrige

INGRAM BARGE
 900 S 3RD ST
 PADUCAH, KY
 US 42003
 Contact: ANTHONY VAN CURA
 anthony.vancura@ingrambarge.com
 T: (270)415-4467
 F: (615)695-3697

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)