WEAR CONTAMINATION FLUID CONDITION

ATTENTION
ABNORMAL
NORMAL

Machine Id

TERRAMITE 55122

CHEVRON 15W40 (4 QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		WC0913810	WC0389674	WCMC16200
	Sample Date		Client Info		16 Apr 2024	17 Jan 2020	24 May 2018
	Machine Age	hrs	Client Info		1215	1002	735
	Oil Age	hrs	Client Info		250	200	250
	Filter Age	hrs	Client Info		250	200	250
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	56	24	12
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	3	1	<1
	Nickel	ppm	ASTM D5185m	>4	0	<1	0
	Titanium	ppm	ASTM D5185m		1	0	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	27	7	5
	Lead	ppm	ASTM D5185m	>40	0	0	0
	Copper	ppm	ASTM D5185m	>330	3	2	<1
	Tin	ppm	ASTM D5185m	>15	<1	0	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	Silicon	ppm	ASTM D5185m	>25	4 50	11	7
Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress.	Potassium	ppm	ASTM D5185m	>20	3	4	10
	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	6.8	7.7	5.
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.2	22.6	17.
	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	visuai	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>50	4	4	3
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.	Boron	ppm	ASTM D5185m		376	352	303
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		106	138	112
	Manganese	ppm	ASTM D5185m		<1	2	<1
	Magnesium	ppm	ASTM D5185m		468	633	492
	Calcium	ppm	ASTM D5185m		1413	1804	1444
			AOTAL DELOE		700	686	719
	Phosphorus	ppm	ASTM D5185m		723		
	Phosphorus Zinc	ppm	ASTM D5185m		903	913	808
	Phosphorus Zinc Sulfur	ppm	ASTM D5185m ASTM D5185m	25	903 2861	913 2232	808 2307
	Phosphorus Zinc	ppm ppm Abs/.1mm	ASTM D5185m	>25	903	913	808

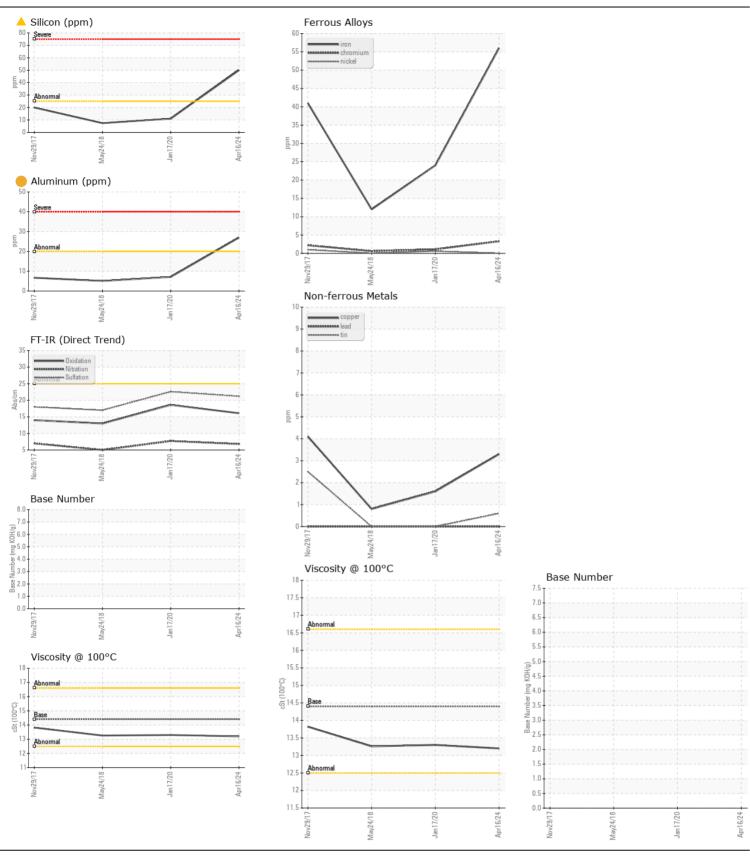
13.2

ASTM D445 14.4

Visc @ 100°C cSt

13.3

13.26







Laboratory Sample No.

Lab Number : 06155590

Unique Number : 10991013

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : WC0913810 **Tested**

Diagnosed

: 22 Apr 2024 : 23 Apr 2024

: 24 Apr 2024 - Sean Felton

2860 C SLATER RD MORRISVILLE, NC Contact: SCOTT SULLIVAN

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SULLIVAN EASTERN INC

Certificate L2367

Test Package : CONST (Additional Tests: TBN) 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) US 27560