

OIL ANALYSIS REPORT



Sample Rating Trend



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: PM-3 changed filters and fluid)

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

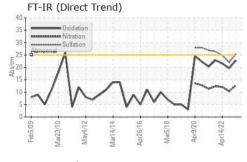
Fluid Condition

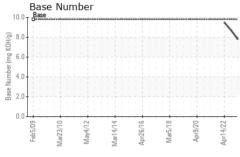
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

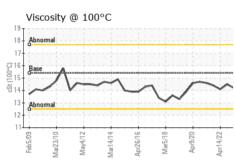
SAMPLE INFORMATION method limit/base current history1 history2	N SHP 15W40 (- GAL)	b2009 Mar21	010 May2012 Mar2014	Apr2016 Mar2018 Apr2020	Apr2022	
Sample Date	SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Date	Sample Number		Client Info		PCA0126293	PCA0062055	PCA0037522
Machine Age hrs Client Info 3951 3426 2905 Oil Age hrs Client Info 3951 3426 2905 Oil Changed Changed Changed Changed Changed Sample Status Imitity Sample Current history1 history1 Fuel WC Method >5 <1.0 <1.0 <1.0 Water WC Method >0.2 NEG NEG NEG Glycol WC Method NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >100 78 52 59 Chromium ppm ASTM D5185m >20 1 <1 1 1 Nickel ppm ASTM D5185m >2 3 2 2 1 Aluminum ppm ASTM D5185m >2 3 0 2 2 Lead ppm <th>·</th> <th></th> <th>Client Info</th> <th></th> <th>26 Jun 2024</th> <th>18 Jan 2023</th> <th>14 Apr 2022</th>	·		Client Info		26 Jun 2024	18 Jan 2023	14 Apr 2022
Oil Age hrs Client Info 3951 3426 2905 Oil Changed Sample Status Client Info Changed	•	hrs					
Oil Changed Sample Status Client Info Changed NORMAL 1.0							
Sample Status	•						
Fuel					_		
Water WC Method >0.2 NEG NEG NEG Glycol WC Method NEG NEG NEG WEAR METALS method limit/base current history1 history2 WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >20 1 <1 1 Nickel ppm ASTM D5185m >20 1 0 0 Silver ppm ASTM D5185m >22 <1 0 0 Silver ppm ASTM D5185m >25 3 0 2 Lead ppm ASTM D5185m >40 8 6 4 Copper ppm ASTM D5185m >40 8 6 7 13 Tin ppm ASTM D5185m >15 2 1 2 2 Antimony ppm ASTM D5185m <1 0 0	CONTAMINAT	ION	method	limit/base	current	history1	history2
WEAR METALS	Fuel		WC Method	>5	<1.0	<1.0	<1.0
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >100 78 52 59 Chromium ppm ASTM D5185m >20 1 <1 1 Nickel ppm ASTM D5185m >2 3 2 2 Titanium ppm ASTM D5185m >2 <1 0 0 Alluminum ppm ASTM D5185m >2 <1 0 0 Aluminum ppm ASTM D5185m >2 <1 0 0 Lead ppm ASTM D5185m >25 3 0 2 Lead ppm ASTM D5185m >40 8 6 4 Copper ppm ASTM D5185m >15 2 1 2 Antimony ppm ASTM D5185m -1 0 0 -1 Antimony ppm ASTM D5185m -1 0 0	Water		WC Method	>0.2	NEG	NEG	NEG
Iron	Glycol		WC Method		NEG	NEG	NEG
Chromium ppm ASTM D5185m >20 1 <1	WEAR METAL	S	method	limit/base	current	history1	history2
Nickel ppm ASTM D5185m >2 3 2 2 Titanium ppm ASTM D5185m >2 <1 0 0 Silver ppm ASTM D5185m >2 <1 0 0 Aluminum ppm ASTM D5185m >25 3 0 2 Lead ppm ASTM D5185m >40 8 6 4 Copper ppm ASTM D5185m >330 9 7 13 Tin ppm ASTM D5185m >15 2 1 2 Antimony ppm ASTM D5185m Vanadium ppm ASTM D5185m <1 0 0 Cadmium ppm ASTM D5185m <1 0 0 Cadmium ppm ASTM D5185m 0 1 0 3 Barium ppm ASTM D5185m 0 <1 0 0 Molybdenum	Iron	ppm	ASTM D5185m	>100	78	52	59
Titanium ppm ASTM D5185m >2 <1	Chromium	ppm	ASTM D5185m	>20	1	<1	1
Silver ppm ASTM D5185m >2 <1	Nickel	ppm	ASTM D5185m	>2	3	2	2
Aluminum	Titanium	ppm	ASTM D5185m	>2	<1	0	0
Lead	Silver	ppm	ASTM D5185m	>2	<1	0	0
Copper ppm ASTM D5185m >330 9 7 13 Tin ppm ASTM D5185m >15 2 1 2 Antimony ppm ASTM D5185m Vanadium ppm ASTM D5185m <1 0 0 Cadmium ppm ASTM D5185m <1 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 1 0 3 Barium ppm ASTM D5185m 0 <1 0 0 Molybdenum ppm ASTM D5185m 0 <1 <1 <1 <1 Magnesium ppm ASTM D5185m 0 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	Aluminum	ppm	ASTM D5185m	>25	3	0	2
Tin	Lead	ppm	ASTM D5185m	>40	8	6	4
Antimony ppm ASTM D5185m history2 ASTM D5185m 0 4 1 0 3 3 2 4 4 1 0	Copper	ppm	ASTM D5185m	>330	9	7	13
Vanadium ppm ASTM D5185m <1							



OIL ANALYSIS REPORT





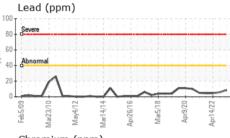


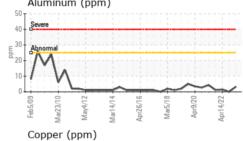
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

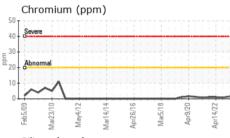
FLUID FROFI	ENTIES	memou			HISTOLAL	HISTOLYZ
Visc @ 100°C	cSt	ASTM D445	15.4	14.2	14.5	14.1

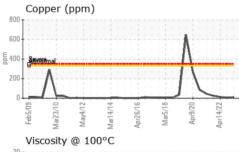
200 - Sev	ere						
150	omal A						
50	V					1	_/
0	-	<u></u>	₹,	~	-	-	2
Feb5/09	Mar23/1	May4/1	Mar14/1	Apr26/16	Mar5/18	Apr9/20	Apr14/22

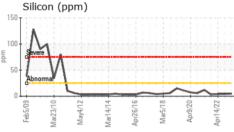
GRAPHS

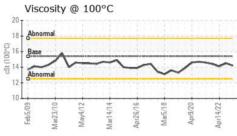


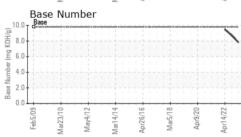
















Certificate 12367

Laboratory Sample No.

Lab Number : 06225781

: PCA0126293 Unique Number : 11109274

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 02 Jul 2024

Tested : 03 Jul 2024 : 03 Jul 2024 - Don Baldridge Diagnosed

19148 Ingersol Lane Neosho, MO US 64850

Test Package : MOB 1 (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.

Contact: NEOSHO NOTIFICATIONS neosho@kempstone.com

Kemp Quarries - Kemp Stone - Neosho

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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F: