

## **OIL ANALYSIS REPORT**

Sample Rating Trend





### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

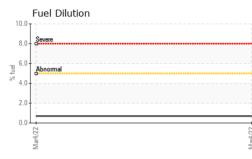
#### Fluid Condition

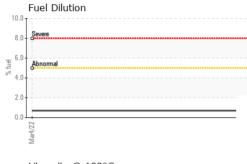
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

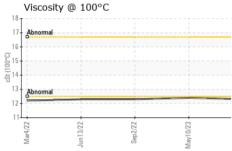
		Mar2022	Jun2022	Sep2022 May2023	Aug2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0084282	PCA0084163	PCA0062689
Sample Date		Client Info		04 Aug 2023	10 May 2023	02 Sep 2022
Machine Age	hrs	Client Info		5598	5028	4035
Oil Age	hrs	Client Info		5028	0	4035
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	4	4	4
Chromium	ppm	ASTM D5185m	>20	<1	<1	0
Nickel	ppm	ASTM D5185m	>4	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	2	0	<1
Lead	ppm	ASTM D5185m	>40	<1	<1	<1
Copper	ppm	ASTM D5185m	>330	2	9	2
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	5	4
Barium	ppm	ASTM D5185m		1	0	<1
Molybdenum	ppm	ASTM D5185m		58	61	61
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		946	896	902
Calcium	ppm	ASTM D5185m		1042	1079	1054
Phosphorus	ppm	ASTM D5185m		995	1018	992
Zinc	ppm	ASTM D5185m		1219	1201	1229
Sulfur	ppm	ASTM D5185m		2890	2888	2957
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	3	4
Sodium	ppm	ASTM D5185m		4	1	2
Potassium	ppm	ASTM D5185m	>20	1	1	0
Fuel	%	ASTM D3524	>5	<1.0	<1.0	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	6.6	7.3	8.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.5	18.5	19.5
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.7	14.6	15.6
Base Number (BN)	mg KOH/g	ASTM D2896		7.8	8.3	8.8
(214)		2				



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	VISUAL		method	limit/base	current	history1	hist	ory2
	White Metal	scalar	*Visual	NONE	NONE	NONE	NON	=
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NON	Ξ
	Precipitate	scalar	*Visual	NONE	NONE	NONE	NON	=
	Silt	scalar	*Visual	NONE	NONE	NONE	NON	Ξ
	Debris	scalar	*Visual	NONE	NONE	NONE	NON	=
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NON	Ξ
Mar4/22	Appearance	scalar	*Visual	NORML	NORML	NORML	NORI	ИL
Ma	Odor	scalar	*Visual	NORML	NORML	NORML	NOR	ИL
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG	
	Free Water	scalar	*Visual		NEG	NEG	NEG	
	FLUID PROPI	ERTIES	method	limit/base	current	history1	hist	ory2
	Visc @ 100°C	cSt	ASTM D445		12.3	12.4	12.3	
	GRAPHS							
	Iron (ppm)			10	Lead (ppm)			
	200 Severe			8	0 - Severe			
E	150-			е <sup>6</sup>	0			
udd	100 Abnormal			und 4	0 - Abnormal			
	50 -			2	0			
			- -		5 5	22		3
	Mar4/22 Jun13/22	Sep 2/22	May10/23	Aug4/23	Mar4/22 Jun13/22	Sep2/22	May10/23 -	Aug4/23
			Ma	4	2		Ma	4
	Aluminum (ppm)	)		5	Chromium (p	pm)		
	40 - Severe			4	0 Severe			
	= 30 <b>-</b>			_ 3	0			
cz/ni kpiwi	20 - Abnormal	I I I	1     	е <sup>3</sup>	0 - Abnormal			
IVIdy	10-				0 -			
		2				2	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
	Mar4/22 Jun13/22	Sep 2/22	May10/23	Aug4/23	Mar4/22 Jun 13/22	Sep 2/22	May10/23	Aug4/23
		63	Ma	A	,	03	Ma	A
	Copper (ppm)			8	Silicon (ppm)			
	400 Severe Abitormai			6			1	
ppr	200 -		· · · · · · · · · · · · · · · · · · ·	E 4	Abnormal			
	100-		 	2	0 -		p	
								_
	Mar4/22 Jun13/22	Sep 2/22	May10/23	Aug4/23	Mar4/22 Jun 13/22	Sep2/22	May10/23	Aug4/23
	7		May	AL			May	Au
	Viscosity @ 100°	C		10.	Base Number	-		
	Abnormal			(B)HO				
0	2		I I	(0) HOX (0) Base Number Base 2.1				
00	Abnormal	1						
c	abnormal							
	10			0.				
	Mar4/22 - Jun13/22 -	Sep 2/22 .	May10/23 .	Aug4/23 -	Mar4/22 - Jun13/22 -	Sep 2/22 .	May10/23 .	Aug4/23 -
	Ma Jun1	Sep	May1	Aug	Ma Jun1	Sep	Mayl	Aug
aboratory ample No. ab Number	: WearCheck USA - : PCA0084282 : 05920146	Receive Diagnos	d : 09 / ed : 10 /	Aug 2023 Aug 2023	3 Kemp (	Quarries - River	12971 HI Shawne	WY 9a e, OK
nique Number est Package ample report, c	: 10592060 : MOB 1 ( Additiona contact Customer Ser		elDilution, T		а	urkomashop@k	Co	74804 ntact: es.nei

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)

Certificate L2367