

OIL ANALYSIS REPORT





DIAGNOSIS

Recommendation

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL SAE 80W90. Please confirm. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

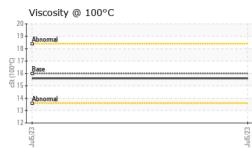
Fluid Condition

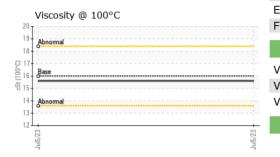
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

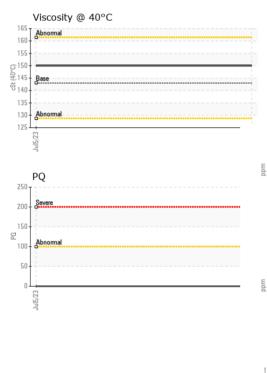
				Jul2023		
SAMPLE INFOR	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		PC0052122		
Sample Date		Client Info		05 Jul 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
WEAR METAL	S	method	limit/base	current	history 1	history 2
PQ		ASTM D8184*		0		
Iron	ppm	ASTM D5185(m)	>150	15		
Chromium	ppm	ASTM D5185(m)	>10	<1		
Nickel	ppm	ASTM D5185(m)	>10	<1		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		0		
Aluminum	ppm	ASTM D5185(m)	>5	<1		
Lead	ppm	ASTM D5185(m)	>65	0		
Copper	ppm	ASTM D5185(m)	>80	<1		
Tin	ppm	ASTM D5185(m)	>8	0		
Antimony	ppm	ASTM D5185(m)	>5	0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185(m)	400	184		
Barium	ppm	ASTM D5185(m)	200	0		
Molybdenum	ppm	ASTM D5185(m)	12	<1		
Manganese	ppm	ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m)	12	<1		
Calcium	ppm	ASTM D5185(m)	150	17		
Phosphorus	ppm	ASTM D5185(m)	1650	853		
Zinc	ppm	ASTM D5185(m)	125	11		
Sulfur	ppm	ASTM D5185(m)	22500	20041		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINAN	ITS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185(m)	>20	3		
Sodium	ppm	ASTM D5185(m)	>170	1		
Potassium	ppm	ASTM D5185(m)	>20	2		
FLUID DEGRA		ام مالح میں	1:		latatanı d	history 2
		method			history 1	TIISLOLY Z
Acid Number (AN)	mg KOH/g	ASTM D974*	2.00	1.31		



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	VISUAL		method	limit/base	current	history 1	history 2
	White Metal	scalar	Visual*	NONE	NONE		
	Yellow Metal	scalar	Visual*	NONE	NONE		
	Precipitate	scalar	Visual*	NONE	NONE		
	Silt	scalar	Visual*	NONE	NONE		
	Debris	scalar	Visual*	NONE	NONE		
	Sand/Dirt	scalar	Visual*	NONE	NONE		
Jul5/23 -	Appearance	scalar	Visual*	NORML	NORML		
٦٢	Odor	scalar	Visual*	NORML	NORML		
	Emulsified Water	scalar	Visual*	>0.2	NEG		
	Free Water	scalar	Visual*		NEG		
	FLUID PROPE	RTIES	method	limit/base	current	history 1	history 2
	Visc @ 40°C	cSt	ASTM D7279(m)	143	150		
	Visc @ 100°C	cSt	ASTM D7279(m)	16.0	15.6		
	Viscosity Index (VI)	Scale	ASTM D2270*	117	106		
	SAMPLE IMAG	ES	method	limit/base	current	history 1	history 2
Ju623	Color					no image	no image
	Bottom					no image	no image
	GRAPHS						
	Ferrous Alloys				PQ		
	15 iron				20 Severe		
u d	10 - nickel				80-		
۹	5-				60		
	0				40		
	Jul5/23			2/2	20		
				DO	00 - Abnormal		
	Non-ferrous Metal	5			80		
	8 - copper				60 -		
E	6 - exercise tin				40		
	2				20		
	0				0		
	Jul5/23			Jul5/23	Jul5/23		Jul5/23
	Viscosity @ 40°C				Acid Number		->
	60 Abnormal			(B/HC	4.0		
	00			mg K(3.0 - Abnormal		
cSt (40°C) 1 1	40 - Base			d Number (mg KOH/g)	2.0 - Base		
1	30 - Abnormal			Acid Nur			-
1	20 +			Jul5/23			Jul5/23 +
	յու			Jul	Jul		Jul5
Sample No. Lab Number Unique Number	: 02568330	Received Diagnos Diagnost	d : 06 . ed : 07 . tician : Kev	Jul 2023 Jul 2023 rin Marson		Suncor - Terra Scotia Centre, 2 Contact: De	

Test Package : MAR 2 (Additional Tests: KV100, TAN Man, VI) To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

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CALA

ISO 17025:2017 Accredited Laboratory

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